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Shebandowan Area High Density Regional Lake Sediment and Water Geochemical Survey, Northwestern Ontario

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Shebandowan Area High Density Regional Lake Sediment and Water Geochemical Survey, Northwestern Ontario

by

J.E. Jackson

2001

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ABSTRACT

A helicopter supported regional lake sediment and water geochemical survey of the Shebandowan area was completed during the summer of 1999. The study area is located approximately 120 km west of Thunder Bay , Ontario. Lake sediment samples were collected at 1385 sites and lake water samples were collected from 1489 sites. Preliminary interpretation of the geochemical patterns has outlined 24 anomalous areas. The anomalous elements include: Au, Pt, Pd, Ni, Cu, Zn, Pb, Ag and REEs. The anomalous areas are loosely ranked in order of their exploration interest. As of November 2000, large portions of the Shebandowan greenstone belt and portions along the Quetico Fault Zone were staked. As of November 2000, 7 of the anomalous areas were open for staking and 7 areas were partially staked. Digital geochemical data for this survey has been released separately from this report as Miscellaneous Release Data (MRD) 76.

INTRODUCTION

Fieldwork for a high density lake sediment and water geochemical survey of the Shebandowan area, in northwestern Ontario, was carried out by staff of the Sedimentary Geoscience Section during July and August, 1999. The survey covered approximately 3500 km^2 extending south to Minnesota, west to Atikokan and encompassed all or parts of the areas shown on the National Topographic System (NTS) map sheets 52 B/2, 52 B/7, 52 B/9, 52 B/10 and 52 B/11 (Figure 1). Lake sediment samples and/or water samples were collected at 1489 sites yielding an average density of 1 sample per 2 km^2. The Shebandowan area was selected for this type of survey to provide a geochemical database to aid exploration in an area with known high economic mineral potential.

Some of the lakes within the study area were sampled during the national geochemical reconnaissance lake sediment program completed by the Geological Survey of Canada (GSC) in the late 1970s (Friske, Hornbrook et al. 1990; Friske, McCurdy and Cook 1990). The GSC survey covered a large area of northwestern Ontario at an average density of 1 sample per 13 km^2.

BEDROCK GEOLOGY

The Shebandowan area lake geochemical survey targeted portions of the Shebandowan and Saganagons greenstone belts of the Wawa Subprovince as well as parts of the southern margin of the Quetico Subprovince (Figure 2). The arcuate Shebandowan greenstone belt is fault bounded to the north by the metasedimentary rocks of the Quetico Subprovince and to the south by a large granitoid batholithic complex. The Saganagons greenstone belt lies to the south of this batholithic complex and *en échelon* to the rocks of the Shebandowan greenstone belt.

The Shebandowan greenstone belt is divided into 2 contrasting suites of rocks; an older mainly metavolcanic suite and a younger, predominantly metasedimentary sequence. The older suite (>2733 Ma, Corfu and Stott 1986) consists of mafic to felsic, tholeiitic to calc-alkalic metavolcanic rocks, chemical metasediments and minor komatiites that have been cut by numerous ultramafic to felsic intrusive rocks (Osmani 1996). In addition, the older unit has been subdivided into the northward younging Burchell and the southward younging Greenwater assemblages (Williams et al. 1991). The younger sequence in the Shebandowan greenstone belt (2689 Ma, Corfu and Stott 1986) consists of metasedimentary (wackes, arkoses, conglomerates, iron formations) and some alkalic metavolcanic rocks that unconformably overlie the older assemblages (Williams et al. 1991).

Similarly, the Saganagons greenstone belt is composed of mafic to felsic, tholeiitic to calc-alkalic metavolcanic cycles that have been subdivided into the Greenwater and Saganagons assemblages. These assemblages are overlain by mainly epiclastic and pyroclastic rocks of the younger Knife Lake assemblage. The southward younging Greenwater assemblage faces the northward younging Saganagons assemblage across the regionally extensive Knife Lake Fault system. The southern margin of the Saganagons assemblage is in fault contact with the rocks of the Knife Lake assemblage (Williams et al. 1991). The similarities between the volcanic sequences of both greenstone belts may indicate that, at one time they were a continuous sequence. This observation may be of economic significance, since much of the exploration activity has been confined to the Shebandowan Greenstone Belt.

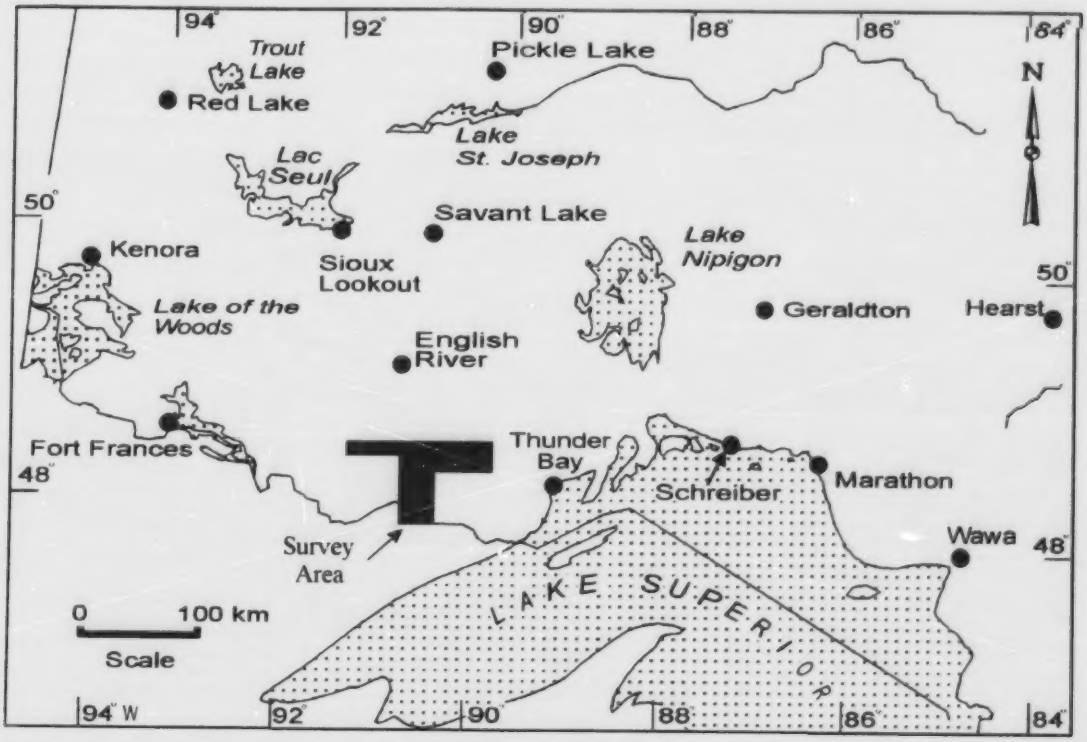

Figure 1. Location map of the Shebandowan area high density lake sediment and water geochemical survey.

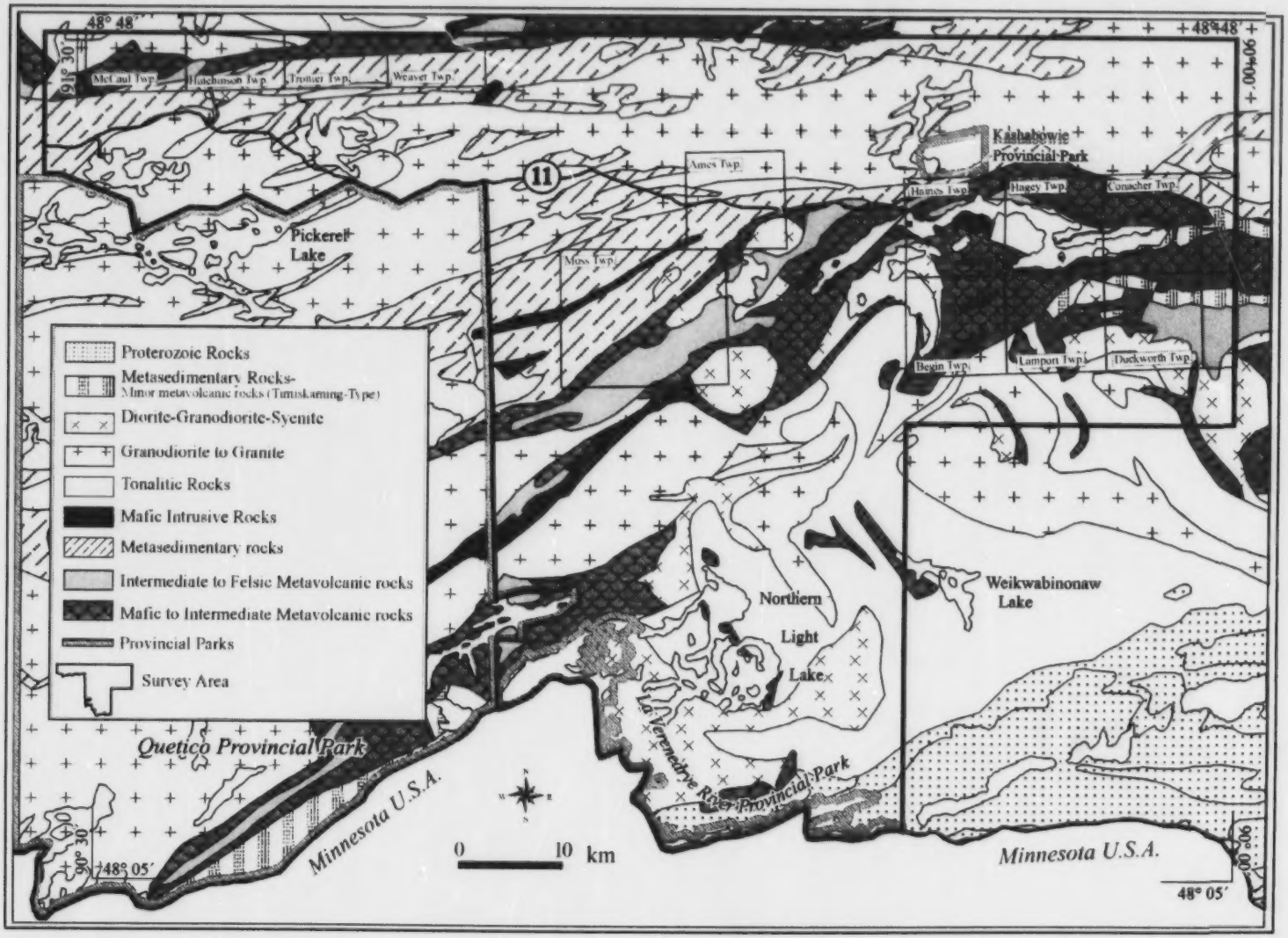

Figure 2. Generalized bedrock geology of the Shebandowan survey area (after Ontario Geological Survey 1991)

The Quetico Subprovince is composed of predominantly greenschist to amphibolite facies metawackes, migmatites and granitoid complexes. These rocks have been intruded by mafic to felsic sills and stocks (Osmani 1993a).

Base and precious metal mineralization in the Shebandowan belt occurs in a variety of geological settings: 1) stratigraphically controlled; 2) intrusion-hosted; and 3) ductile-brittle shear hosted (Farrow 1993; Osmani 1993a, 1996). Base metals (with varying amounts of Au, Pt and Pd) are associated with the intrusion-hosted and stratigraphically controlled styles of mineralization. Most gold occurrences are associated with regional/local brittle-ductile shears/fault zones and other structural features. The greatest economic potential in the Quetico Subprovince is gold mineralization associated with veining and Au-PGE/base metal mineralization related to ultramafic-mafic intrusives in areas adjacent to the Quetico fault system.

PHYSIOGRAPHY AND QUATERNARY GEOLOGY

The topography of most of the Shebandowan area is typified by relief of 30 to 60 m. The bedrock surface forms rounded hills dissected by broad drainage valleys. In some areas, where the underlying basement rocks are bedded or foliated, the terrain exhibits elongated ridges with drainage oriented parallel to the dominant bedrock structures. Areas of higher relief (100 to 150 m) occur in the southern portion of the survey area near the Minnesota border (Mollard and Mollard, 1980a). A regional compilation of the area's Quaternary geology (Barnett et al. 1991) indicates, that in most of the study area, a thin veneer of discontinuous till overlies bedrock (Figure 3). Glaciofluvial ice-contact sand and gravel occur at the west end of Shebandowan Lake, south of Greenwater Lake and in the southeast trending Brule and Steep Rock moraines (Mollard and Mollard 1980a, 1980b).

SAMPLING METHODS

Organic lake sediment samples were collected from a helicopter float using the Ontario Geological Survey (OGS) designed gravity corer. On average, 20 lakes were sampled per hour of helicopter flying time. In order to avoid anthropogenic influences and water/sediment interface effects (i.e., increased Mn due to anoxic conditions that result in secondary accumulation of base metals), only deep sediment (>20 cm below the sediment surface) was collected. This sediment better reflects the effects of natural geochemical inputs that may be related to local geology.

Lake water samples were collected at a depth of 0.5 m from shallow lakes (<3 m deep) and at a depth of 2 m from deep lakes (>3 m). A semi-automated water sampling apparatus, developed by the OGS, was utilized for water collection. The apparatus consists of a submersible pump, a flow cell (for measurement of parameters such as pH, conductivity, oxidation-reduction potential and dissolved oxygen), a sample bottle tray and various hoses and pinch valves. Water is pumped from the lake and allowed to purge the sampling system prior to the collection of a water sample and the recording of water quality parameters. Water samples were kept cool after collection and processed (filtered and acidified) within 24 hours of collection.

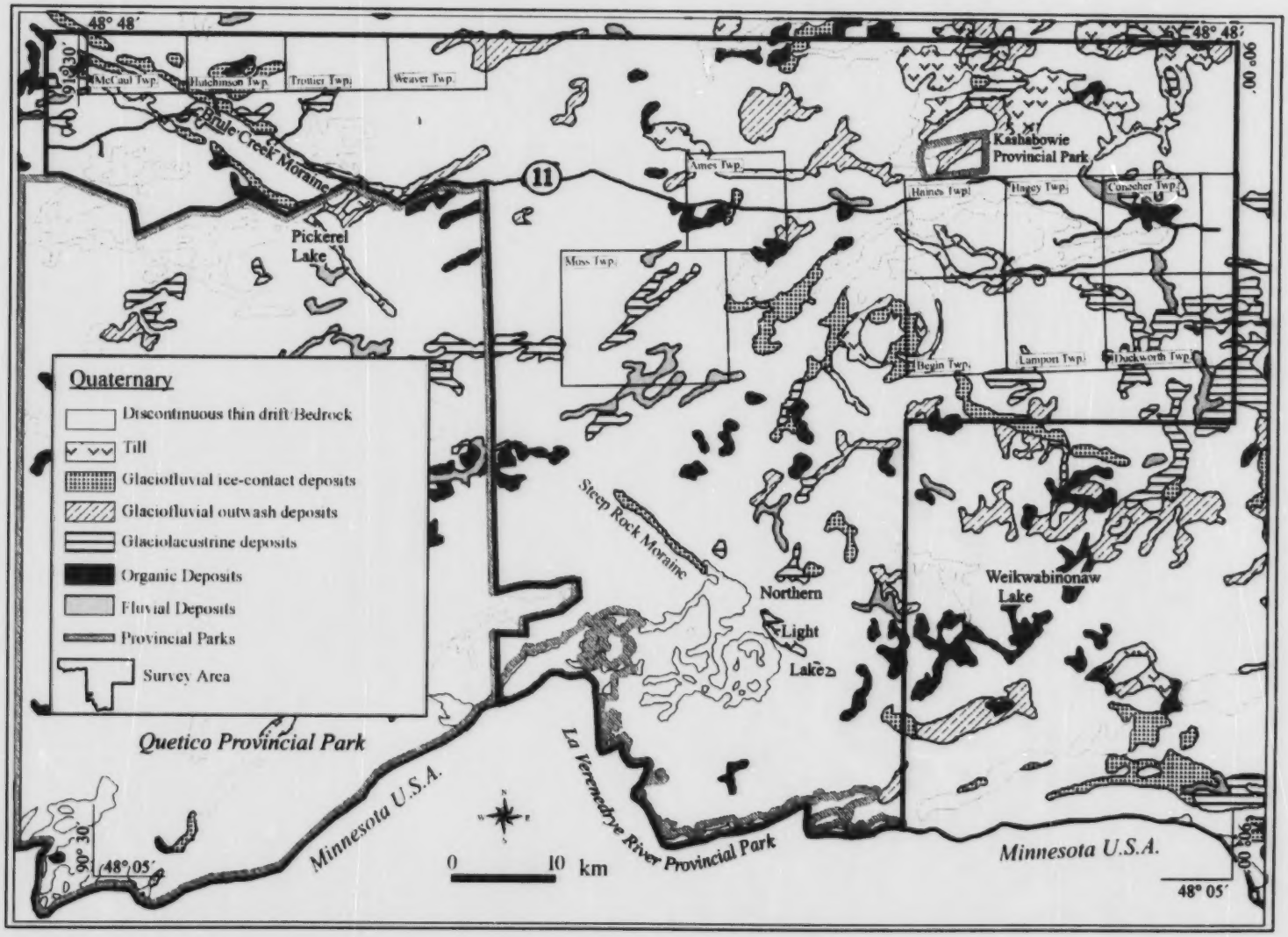

Figure 3. Generalized Quaternary geology of the Shebandowan survey area (after Barnett et al. 1991)

A GPS receiver was utilized to record accurate sample site positions. A customized database application operated on a pen based computer was used to record sample descriptions and observations.

SAMPLE PREPARATION AND ANALYTICAL METHODS

Lake sediment samples were placed in breathable fabric bags and allowed to partially air dry prior to shipment to the laboratory. The samples were then freeze dried (to retain volatile elements), partially pulverized in a ceramic ring and puck pulverizer and sieved to obtain the -80 mesh (<177 µm) size fraction. Laboratory analysis included nitric-aqua regia digestion of 1 g of sample material followed by inductively coupled plasma-mass spectrometry (ICP-MS) and inductively coupled plasma-optical emission spectroscopy (ICP-OES) to determine approximately 50 trace elements. Nitric acid-aqua regia digestion attacks all sample matrix constituents, except silicate minerals, and therefore is considered a nonselective, relatively strong partial extractant (Dyer 1999).

Approximately 15 g of material from each sample pulp was pressed into briquettes and analyzed by instrumental neutron activation analysis (INAA) for a suite of 34 elements.

Laboratory analysis for Pt, Pd plus Au was accomplished by lead fire assay (FA) followed by an ICP-MS finish on 15 g of material. A total of 1385 samples were submitted for ICP and INAA analytical methods with sufficient sample pulp left over to analyze 1241 of these by the FA technique.

Quality control was monitored through the use of sample pulp duplicates and certified reference materials. Loss-on-ignition (LOI) was determined at 500°C, using an automated furnace gravimetric technique.

Water samples were passed through 0.45 µm syringe filters and acidified to 1% ultrapure nitric acid within 24 hours of collection. Analysis of water includes direct aspiration ICP-MS to determine approximately 50 elements including major cation and anion species. Quality of the analyses was monitored through the use of sample duplicates and certified reference standard SLRS-4.

QUALITY CONTROL RESULTS

Lake Sediments

Table 1 contains a summary of the elements analyzed from the lake sediments in the study area. The statistics include median, range, coefficients of variation for the certified reference material and the estimates of precision obtained from sample duplicates. Quality control of the analytical precision and accuracy of the data was maintained using CANMET certified standard reference material (LKSD-1 and LKSD-4) and sample pulp duplicates randomly distributed throughout the sample sequence. A complete listing of all the geochemical data used to prepare this table is contained in the Miscellaneous Release-Data (MRD-76), published separately from this report.

Element	Analytical Method	Units	MDL	Lake Sediment (n=1365)			Estimated Precision	LKSD-1 Reference Standard (n=21)			LKSD-4 Reference Standard (n=21)		
				Median	Range			Certified Value	Mean Q.C. Result	Coefficient of variation (%)	Certified Value	Mean Q.C. Result	Coefficient of variation (%)
					Min	Max							
Ag	ICP-MS	ppm	0.02	0.11	<0.02	0.83	±0.04	0.6	0.59	6.9	0.2	0.23	4.5
Al	ICP-OES	ppm	30	13508	<30	34569	±2111	41300	4376	8.1	31200	13543	6.8
As	INAA	ppm	1	2	<1	80	±2	40	39	2.8	16	17	4.9
Au	INAA	ppb	1	2	<1	78	±4	5	5	57.3	2	3	23.8
Au	FA	ppb	0.9	1.9	<0.9	102.7	±3.5	5	6.3	110.1	2	3.2	30.4
Ba	ICP-MS	ppm	1	99	14	1136	±10	430	95	4.1	330	137	3.3
Be	ICP-MS	ppm	0.1	0.4	<0.1	2.8	±0.5	1.1	0.2	49.8	1	0.5	31.7
Br	INAA	ppm	0.5	39	5	110	±18	11	11	7.6	49	48.3	8.2
Ca	ICP-OES	ppm	20	6695	<20	23626	±791	77200	60320	3.9	12900	9902	5.9
Cd	ICP-MS	ppm	0.05	0.52	0.14	1.57	±0.11	1.2	1.57	3.6	1.9	2.05	3.7
Ce	ICP-MS	ppm	0.03	46.69	<0.03	400	±6.0	27	17.70	10.8	48	39.78	2.7
Co	ICP-MS	ppm	0.05	7.35	0.28	90.18	±1.78	9	7.64	8.6	11	8.78	4.0
Cr	ICP-OES	ppm	4	33	<4	236	±3	12	10	6.6	21	18	7.0
Cs	ICP-MS	ppm	0.01	0.69	0.17	3.55	±0.15	1.5	0.48	5.4	1.7	1.02	4.6
Cu	ICP-MS	ppm	0.5	37.2	<0.5	664.0	±5.8	44	44.2	10.6	30	29.9	4.3
Dy	ICP-MS	ppm	0.05	2.59	0.14	32.37	±0.39	3.4	1.70	7.8	3.7	2.98	3.5
Er	ICP-MS	ppm	0.01	1.30	0.10	14.73	±0.16	-	0.93	9.4	-	1.69	4.8
Eu	ICP-MS	ppm	0.05	0.91	<0.05	12.69	±0.17	0.9	0.47	8.6	1.1	0.93	5.0
Fe	ICP-OES	ppm	5	16662	<5	311824	±2490	18000	20981	4.8	27000	29408	5.6
Ga	ICP-MS	ppm	0.05	2.44	0.29	13.77	±0.37	-	1.89	6.9	-	3.30	3.9
Gd	ICP-MS	ppm	0.05	4.12	0.22	60.03	±0.45	-	2.30	6.8	-	3.99	4.3
Hf	ICP-MS	ppm	0.05	<0.05	<0.05	0.39	±0.05	3.6	<0.05	35.0	2.8	<0.05	41.3
Ho	ICP-MS	ppm	0.01	0.48	0.03	6.08	±0.03	-	0.34	8.3	-	0.59	3.3
K	ICP-OES	ppm	100	468	<100	2362	±164	9100	496	8.7	6600	1136	9.4
La	ICP-MS	ppm	0.05	26.89	<0.05	217.61	±4.21	16	10.42	7.0	26	21.48	6.0
Li	ICP-MS	ppm	0.5	5.6	<0.5	36.0	±2.7	7	4.3	10.9	12	9.1	8.0
Lu	ICP-MS	ppm	0.005	0.166	<0.005	1.989	±0.034	0.4	0.133	10.0	0.5	0.25	5.8
Mg	ICP-OES	ppm	20	2060	<20	14204	±420	10300	6613	5.5	5400	4107	5.8
Mn	ICP-OES	ppm	1	279	<1	8891	±42	460	469	4.2	430	471	5.5
Mo	ICP-MS	ppm	0.1	1.5	0.2	63	±0.4	12	9.8	3.5	2	1.7	4.5
Na	ICP-OES	ppm	10	124	<10	1519	±97	14800	325	16.3	5200	251	16.8
Nb	ICP-MS	ppm	0.05	0.63	<0.05	1.89	±0.23	7	0.61	27.3	9	1.12	8.7
Nd	ICP-MS	ppm	0.08	27.48	<0.08	392.79	±3.85	16	11.85	6.5	25	22.50	4.8
Ni	ICP-MS	ppm	0.5	22.6	5.9	208.9	±3.6	11	12.6	7.6	32	31.2	3.3
P	ICP-OES	ppm	50	1113	<50	7258	±173	900	769	4.7	1300	1415	5.6
Pb	ICP-MS	ppm	0.05	4.41	0.50	36.20	±0.74	84	78.0	4.3	93	89.54	3.0
Pd	FA	ppb	0.9	2.6	<0.9	36.7	±1.8	-	1.8	44.5	-	1.8	32.2
Pr	ICP-MS	ppm	0.05	7.08	<0.05	99.82	±1.03	-	2.84	7.8	-	5.70	3.8
Pt	FA	ppb	0.5	2.0	<0.5	199.0	±1.6	-	1.6	32.7	-	2.0	33.6
Rb	ICP-MS	ppm	0.05	4.97	1.14	27.33	±1.34	24	3.43	8.4	28	9.82	5.1
S	ICP-OES	ppm	30	3896	<30	34624	±747	15700	17258	4.7	9900	10909	6.3
Sb	ICP-MS	ppm	0.05	0.09	<0.05	0.76	±0.08	1.2	0.58	13.8	1.5	1.21	5.2
Sc	ICP-OES	ppm	1	4	<1	26	±1	9	2	14.4	7	4	9.7
Se	INAA	ppm	2	<2	<2	12	±2	-	<2	49.4	-	<2	27.5
Sm	ICP-MS	ppm	0.05	4.79	<0.05	68.70	±0.6	4	2.47	7.8	5	4.25	6.1
Sr	ICP-MS	ppm	0.1	22.2	6.7	558.2	±3.5	250	66.3	5.3	110	39.7	3.9
Sn	ICP-MS	ppm	0.05	<0.05	<0.5	1.46	±0.36	16	3.24	4.9	5	3.3	4.4
Ta	INAA	ppm	0.5	<0.5	<0.5	1.1	±0.3	0.3	<0.5	-	0.4	<0.5	-
Tb	ICP-MS	ppm	0.05	0.53	<0.05	6.68	±0.08	0.6	0.32	10.1	1.2	0.55	4.8
Th	ICP-MS	ppm	0.05	0.87	<0.02	23.53	±0.53	2.2	1.23	16.3	5.1	1.81	6.9
Ti	ICP-OES	ppm	3	220	<3	1197	±81	3010	319	15.5	2270	465	9.4
Tl	ICP-MS	ppm	0.05	0.12	<0.05	0.75	±0.25	-	0.21	6.4	-	0.41	4.0
Tm	ICP-MS	ppm	0.005	0.176	<0.005	1.870	±0.029	-	0.13	7.8	-	0.245	4.4
U	ICP-MS	ppm	0.05	2.48	<0.05	77.23	±0.56	9.7	8.66	4.5	31	29.54	3.2
V	ICP-OES	ppm	5	52	<5	406	±9	27	22	7.6	32	36	5.9
W	ICP-MS	ppm	0.05	0.10	<0.05	2.61	±0.08	<4	0.59	19.8	<4	0.28	28.7
Y	ICP-MS	ppm	0.05	13.37	0.76	160.47	±1.28	19	10.28	6.0	23	17.0	2.9
Yb	ICP-MS	ppm	0.05	1.10	0.07	11.08	±0.13	2	0.85	8.0	2	1.58	3.5
Zn	ICP-MS	ppm	1	75	13	254	±9	337	323	3.4	189	186	3.3
Zr	ICP-MS	ppm	0.1	1.1	<0.1	15.7	±0.9	134	1.5	26.7	105	<1	16.0
LOI	Grav	%	0.01	44.20	10.08	88.38	±1.3	23.5	22.65	1.3	40.8	40.31	0.9

Notes:

1. ICP-MS– Inductively Coupled Plasma Mass Spectroscopy (aqua-regia digestion)
2. ICP-OES– Inductively Coupled Plasma Optical Emission Spectroscopy (aqua-regia digestion)
3. INNA– Instrumental neutron activation analysis
4. FA– Lead fire assay with ICP-MS finish
5. MDL=method detection limit
6. Estimated precision at 95% confidence level; ICP-MS, ICP-OES, INAA and FA elements based on results of 82 duplicate pairs
7. Q.C. Result – Average value obtained, Shebandowan area dataset
8. Coefficient of variation at one standard deviation (68% confidence Level)
9. LKSD-1 and LKSD-4 are Canmet certified reference materials. For ICP elements, quoted reference values for Ag, Cd, Co, Cr, Cu, Fe, Mn, Mo, Ni, Pb, Sb, V, Zn determined by partial digestion; all other ICP elements determined with total digestion. For INAA elements, quoted reference values for LKSD-1 and LKSD-4 are from total digestion methods

Table 1: Shebandowan study area, lake sediment dataset, summary of elements analyzed by ICP, INAA, FA and quality control data, including estimates of precision.

The overall quality of the lake sediment data is very good. The elements summarized in Table 1 are the best analytical results obtained from the various analytical methods. Quality control (QC) assessment of the ICP-MS data indicated a significant problem with Ta. This element was deemed unsuitable for publication and deleted from the dataset. Minor analytical drift was detected in Ag, Be, Nb and W. Each of these elements contain specific areas of minor drift in the sample sequence and caution should be exercised when determining anomalous concentrations of these elements. All other ICP-MS data included in Table 1 are of excellent quality.

The overall quality of the ICP-OES data is very good. K, Li, Mo, Na, Sc and Ti contain areas of minor drift and should be treated with some caution. Be and W contained significant quality control problems and have been removed from the ICP-OES dataset.

INAA elements included in Table 1 are of good quality. Quality control methods detected some analytical drift for gold in the INAA data, but the overall precision of the gold data is fairly good and typical for this method. Caution should also be used when using Ba, Br, Cr, Cs, Lu, Mo, Ni, Rb, Se, Ta and W because of specific areas of analytical drift.

Quality control methods for Pt, Pd and Au from the fire assay/ICP-MS (FA) data indicated some problems with the precision and accuracy of the data. The problem with the accuracy of the data can be seen in the high coefficients of variations (Table 1) for the lake sediment standards inserted into the sample sequence. Although there are areas of minor analytical drift, there is a good correlation between the Pt and Pd values and the overall quality of the FA data is good. The estimates of precision for Au, Pt and Pd are ±3.5, ±1.6 and ±1.8 ppb, respectively.

Gold analyses obtained from both the INAA and the FA methods have been included in this report. There is a general corroboration between gold assays from the 2 methods, although, minor analytical drift and inhomogeneity (nugget effect) can produce gold values that are not corroborated between the 2 methods. The lack of corroboration in elevated gold values between the 2 analytical methods should not be considered any less reliable than a direct correlation of values, since the reproducibility of gold can be somewhat problematic.

Lake Water

Analytical precision and accuracy of the water data was assessed using Saint Lawrence River Standard reference material (SLRS-4) and sample duplicates randomly inserted into the sample series. Table 2 contains some basic statistical data listing the median, range, estimated precision and coefficient of variation for the SLRS-4 for each of the elements analyzed.

The overall quality of the analytical results for the lake water dataset is acceptable. The quality control methods detected problems with the accuracy and precision of some of the elements analyzed in the lake water dataset. Analytical results for Ag, Au, Hf, Hg, Sn, Ta, Tl and W contain considerable quality control problems and have not been included in MRD-76. The elements Be, Cu, Mg, Mo, Nb, Pb, Sb, Th, Zn and Zr contain some areas of analytical drift and should be treated with caution.

Element	Analytical Method	Units	MDL	Lake Water (n=1489)				SLRS-4 Reference Standard (n=32)		
				Median	Range		Estimated Precision	Certified Value	Mean Q.C. Result	Coefficient of variation (%)
					Min	Max				
Al	ICP-MS	ppb	0.2	38.6	<0.2	954.9	±129.5	54	60.3	30.9
Ba	ICP-MS	ppb	0.3	6.7	0.4	117.6	±6.8	12.2	12.0	26.1
Be	ICP-MS	ppb	0.02	<0.02	<0.02	0.06	±0.02		<0.2	47.3
Ca	ICP-MS	ppb	60	5106	258	86838	±5918	6200	6749	29.9
Cd	ICP-MS	ppb	0.005	<0.005	<0.005	1.394	±0.011	0.012	0.010	72.2
Ce	ICP-MS	ppb	0.001	0.100	<0.001	5.718	±0.197	n/a	0.321	24.5
Co	ICP-MS	ppb	0.02	0.03	<0.02	12.99	±0.11	0.033	0.03	20.8
Cr	ICP-MS	ppb	0.03	0.32	<0.03	23.74	±0.35	0.33	0.32	41.1
Cs	ICP-MS	ppb	0.005	0.008	<0.005	44.386	±0.007	n/a	0.006	20.2
Cu	ICP-MS	ppb	0.2	1.0	<0.2	137.6	±2.7	1.81	2.7	154.5
Dy	ICP-MS	ppb	0.001	0.010	<0.001	0.267	±0.013	n/a	0.021	25.3
Er	ICP-MS	ppb	0.001	0.006	<0.001	0.136	±0.006	n/a	0.011	27.9
Eu	ICP-MS	ppb	0.001	0.004	<0.001	0.127	±0.005		0.007	28.1
Fe	ICP-MS	ppb	1	123	<1	3729	±212	103	113	28.4
Ga	ICP-MS	ppb	0.3	<0.3	<0.3	1.3	±0.25		<0.3	33.9
Gd	ICP-MS	ppb	0.001	0.015	<0.001	0.398	±0.023		0.034	25.2
Ho	ICP-MS	ppb	0.001	0.002	<0.001	0.053	±0.003	n/a	0.004	26.0
La	ICP-MS	ppb	0.001	0.083	<0.001	3.289	±0.117	n/a	0.260	24.3
Li	ICP-MS	ppb	0.02	0.48	<0.2	3.08	±0.28	n/a	0.47	23.7
Lu	ICP-MS	ppb	0.001	0.001	<0.001	0.017	±0.002	n/a	0.002	40.3
Mg	ICP-MS	ppb	15	1351	43	23477	±1067	1600	1683	30.1
Mn	ICP-MS	ppb	0.2	2.6	<0.2	607.2	±24.5	3.37	4.0	28.1
Mo	ICP-MS	ppb	0.3	<0.3	<0.3	4.7	-	0.19	<0.3	-
Nb	ICP-MS	ppb	0.02	<0.02	<0.02	0.07	±0.03	n/a	<0.02	33.3
Nd	ICP-MS	ppb	0.003	0.088	<0.003	2.593	±0.103	n/a	0.233	26.0
Ni	ICP-MS	ppb	0.4	0.4	<0.4	46.4	±0.6	0.67	0.7	28.5
Pb	ICP-MS	ppb	0.01	0.02	<0.01	1.73	±0.12	0.086	0.08	171.7
Pr	ICP-MS	ppb	0.001	0.022	<0.001	0.719	±0.029	n/a	0.060	25.0
Rb	ICP-MS	ppb	0.02	1.17	0.02	9.60	±0.5	n/a	1.39	21.8
Sb	ICP-MS	ppb	0.03	<0.03	<0.03	148.94	±0.03	0.23	0.23	20.7
Sc	ICP-MS	ppb	0.01	0.13	<0.01	1.40	±0.17		0.17	35.3
Sm	ICP-MS	ppb	0.001	0.016	<0.001	0.455	±0.016	n/a	0.048	27.1
Sr	ICP-MS	ppb	1	15	<1	292	±14.5	26.3	28	23.0
Tb	ICP-MS	ppb	0.001	0.002	<0.001	0.050	±0.003		0.004	28.6
Th	ICP-MS	ppb	0.02	<0.02	<0.02	0.26	±0.01	n/a	<0.02	-
Ti	ICP-MS	ppb	0.01	0.41	<0.01	12.12	±1.06	n/a	1.29	31.0
Tm	ICP-MS	ppb	0.001	0.001	<0.001	0.019	±0.002	n/a	0.002	33.6
U	ICP-MS	ppb	0.001	0.024	<0.001	0.678	±0.038	0.05	0.040	25.5
V	ICP-MS	ppb	0.01	0.22	<0.01	9.87	±0.25	0.32	0.33	23.1
Y	ICP-MS	ppb	0.001	0.068	<0.001	1.704	±0.065	n/a	0.127	23.8
Yb	ICP-MS	ppb	0.001	0.006	<0.001	0.114	±0.008	n/a	0.011	27.7
Zn	ICP-MS	ppb	0.5	1.9	<0.5	82.8	±11.2	0.93	3.0	104.3
Zr	ICP-MS	ppb	0.1	0.1	<0.1	9.6	±0.2	n/a	0.1	35.3

Notes:

1. ICP-MS= Inductively Coupled Plasma Mass Spectroscopy.
2. MDL = method detection limit
3. Estimated precision at 95% confidence level; based on results of 78 duplicate pairs.
4. SLRS-4 = National Research Council, Saint Lawrence River Standard #4: certified reference standard
5. Coefficient of variation at one standard deviation (68% confidence level)

Table 2: Shebandowan study area, lake waters dataset, summary of elements analyzed by ICP-MS and quality control data, including estimates of precision.

DISCUSSION OF REGIONAL GEOCHEMICAL PATTERNS

Proportional dot maps for pH, conductivity and depth for lake waters are contained in Appendix A. Appendix B contains lake sediment proportional dot plots for As, Cd, Ca, Cr, Co, Cu, Au (both INAA and FA), Fe, Pb, LOI, Mg, Mn, Mo, Ni, Pd, Pt, Ag, Sr, total REEs, Ti, W, U, V and Zn. Lake sediment samples with loss-on-ignition of less than 10% were not included on these maps but are included in the MRD-76 digital data release. Selected analytical data for lake sediment samples is listed in Appendix C and all of analytical data is included in the digital (MRD-76) data release.

The mean values for pH and conductivity in lake waters collected in the survey are 6.93 and 47.5 µS/cm, respectively. The regional patterns of pH and conductivity display definite patterns that can be attributed to the underlying geology. Many of the acidic lakes (<6.5) are underlain by granitic intrusive rocks of the Quetico and Shebandowan Subprovince. Lakes with neutral to slightly alkaline pH values are generally found over metavolcanic rocks and over glaciofluvial ice-contact and outwash deposits. Several of the late to post tectonic diorite-monzonite-granodiorite-syenite plutons also contain lakes with a higher (more alkaline) pH. Higher values of electrical conductivity (EC) are associated with the metavolcanic sequences of the Shebandowan and Saganagons greenstone belts. These metavolcanic sequences also contain higher Ca in lake sediments.

The Quetico Subprovince is distinguished from the Wawa Subprovince by having higher levels of U in lake sediments. Higher levels of U within the Wawa Subprovince are returned from lake sediments over the Myrt Lake Batholith and the Moss Lake Stock. Strontium and barium in lake sediments clearly define the Icarus, Hood Lake, Moss Lake, Hermia Lake and Burchell Lake stocks. Some of these intrusions contain the sanukitoid suite of rocks (Stern et al. 1989).

DESCRIPTION OF SELECTED ANOMALOUS AREAS

Twenty-four areas containing anomalous precious and base metal concentrations are illustrated on Figure 4 and are described below. The areas are loosely ranked in order of exploration interest based on multi-element or multi-site anomalies in areas of favourable geology. There are also numerous single site anomalies that occur throughout the survey that are not discussed below, but may warrant further investigation. The land tenure map, indicating staked and areas withdrawn from staking, is shown on Figure 5. The term "elevated" is used to denote assays above the 90th percentile, "anomalous" for assays above the 95th percentile and "highly anomalous" for assays greater than the 98th percentile. For the Au (both methods) and the Pt and Pd data, weakly anomalous refers to values greater than the 95th percentile and anomalous for values greater than the 99.5 percentile.

There are a number of factors to be considered when using this geochemical data to assess an anomalous value or area. False anomalies can be generated by both natural environmental conditions and/or by analytical or sample preparation errors. The scavenging effect of iron and manganese hydroxides in chemically active surface sediment environments is one source of false trace element anomalies. The co-precipitation of trace elements such as Zn, Co, Ni, Pb and Mo in the surface environment (0 to 10 cm below the lake bottom) with Fe and Mn can lead to elevated values within some lakes. Sampling techniques employed by the OGS minimize the effect of this scavenging by sampling the deeper (>20 cm) lake sediments, but some mixing may be unavoidable.

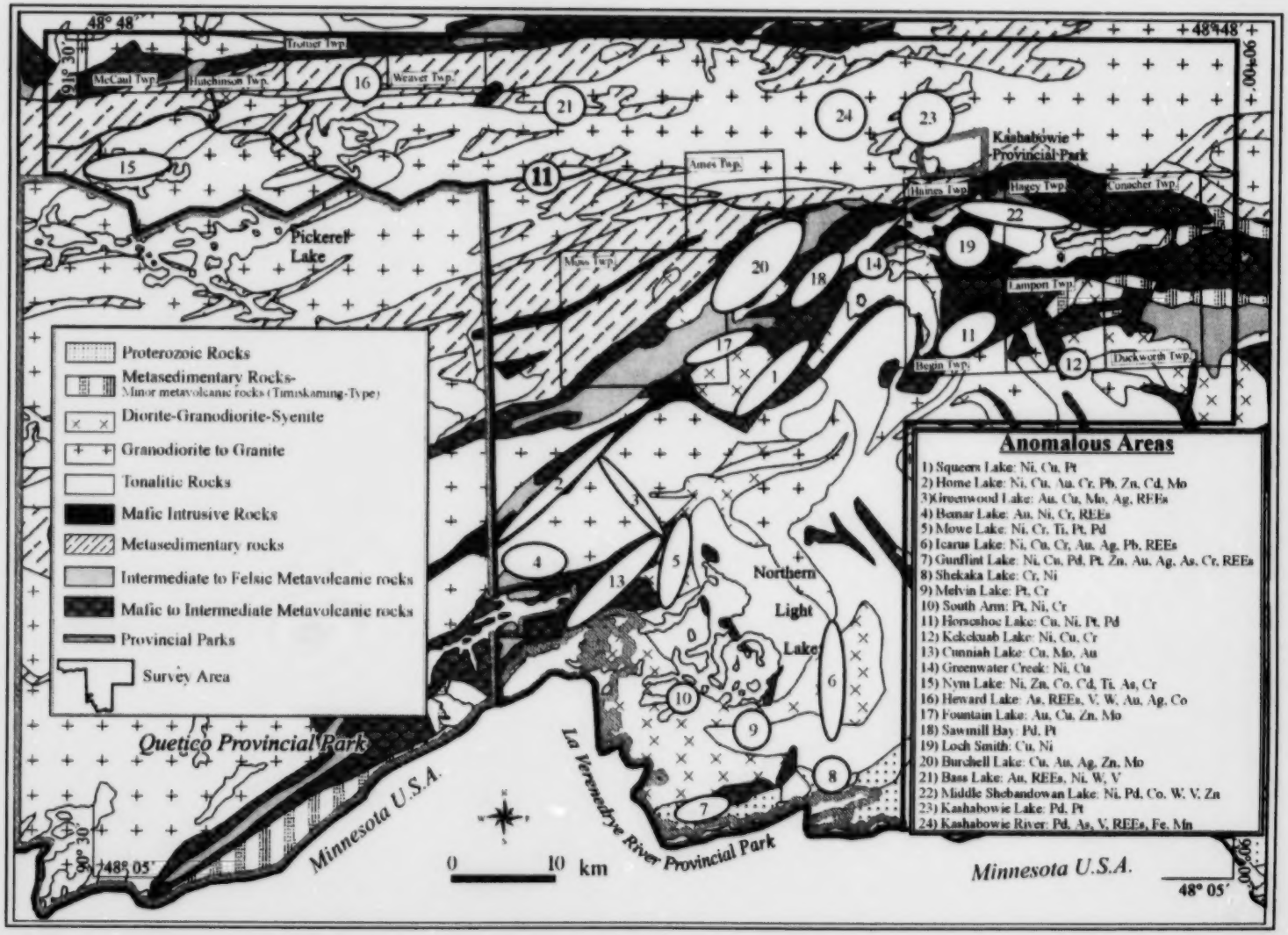
48° 48'
91° 30'
90°00'
Trotter Twp.
McCaul Twp.
Hutchinson Twp.
Weaver Twp.
Ames Twp.
Haines Twp.
Hagey Twp.
Conacher Twp.
Kashabowie Provincial Park
Pickerel Lake
Mayo Twp.
Lampert Twp.
Begin Twp.
Duckworth Twp.
Proterozoic Rocks
Metasedimentary Rocks-
Minor metavolcanic rocks (Timiskaming-Type)
Diorite-Granodiorite-Syenite
Granodiorite to Granite
Tonalitic Rocks
Mafic Intrusive Rocks
Metasedimentary rocks
Intermediate to Felsic Metavolcanic rocks
Mafic to Intermediate Metavolcanic rocks
Provincial Parks
Survey Area
Anomalous Areas
1) Squeers Lake: Ni, Cu, Pt
2) Home Lake: Ni, Cu, Au, Cr, Pb, Zn, Cd, Mo
3)Greenwood Lake: Au, Cu, Mo, Ag, REEs
4) Bomar Lake: Au, Ni, Cr, REEs
5) Mowe Lake: Ni, Cr, Ti, Pt, Pd
6) Icarus Lake: Ni, Cu, Cr, Au, Ag, Pb, REEs
7) Gunflint Lake: Ni, Cu, Pd, Pt, Zn, Au, Ag, As, Cr, REEs
8) Shekaka Lake: Cr, Ni
9) Melvin Lake: Pt, Cr
10) South Arm: Pt, Ni, Cr
11) Horseshoe Lake: Cu, Ni, Pt, Pd
12) Kekekusb Lake: Ni, Cu, Cr
13) Cunniah Lake: Cu, Mo, Au
14) Greenwater Creek: Ni, Cu
15) Nym Lake: Ni, Zn, Co, Cd, Ti, As, Cr
16) Heward Lake: As, REEs, V, W, Au, Ag, Co
17) Fountain Lake: Au, Cu, Zn, Mo
18) Sawmill Bay: Pd, Pt
19) Loch Smith: Cu, Ni
20) Burchell Lake: Cu, Au, Ag, Zn, Mo
21) Bass Lake: Au, REEs, Ni, W, V
22) Middle Shebandowan Lake: Ni, Pd, Co, W, V, Zn
23) Kashabowie Lake: Pd, Pt
24) Kashabowie River: Pd, As, V, REEs, Fe, Mn
Northern Light Lake
Quetico Provincial Park
Minnesota U.S.A.
La Verendrye River Provincial Park
0 10 km
48° 05'

Figure 4. Location of geochemically anomalous areas.

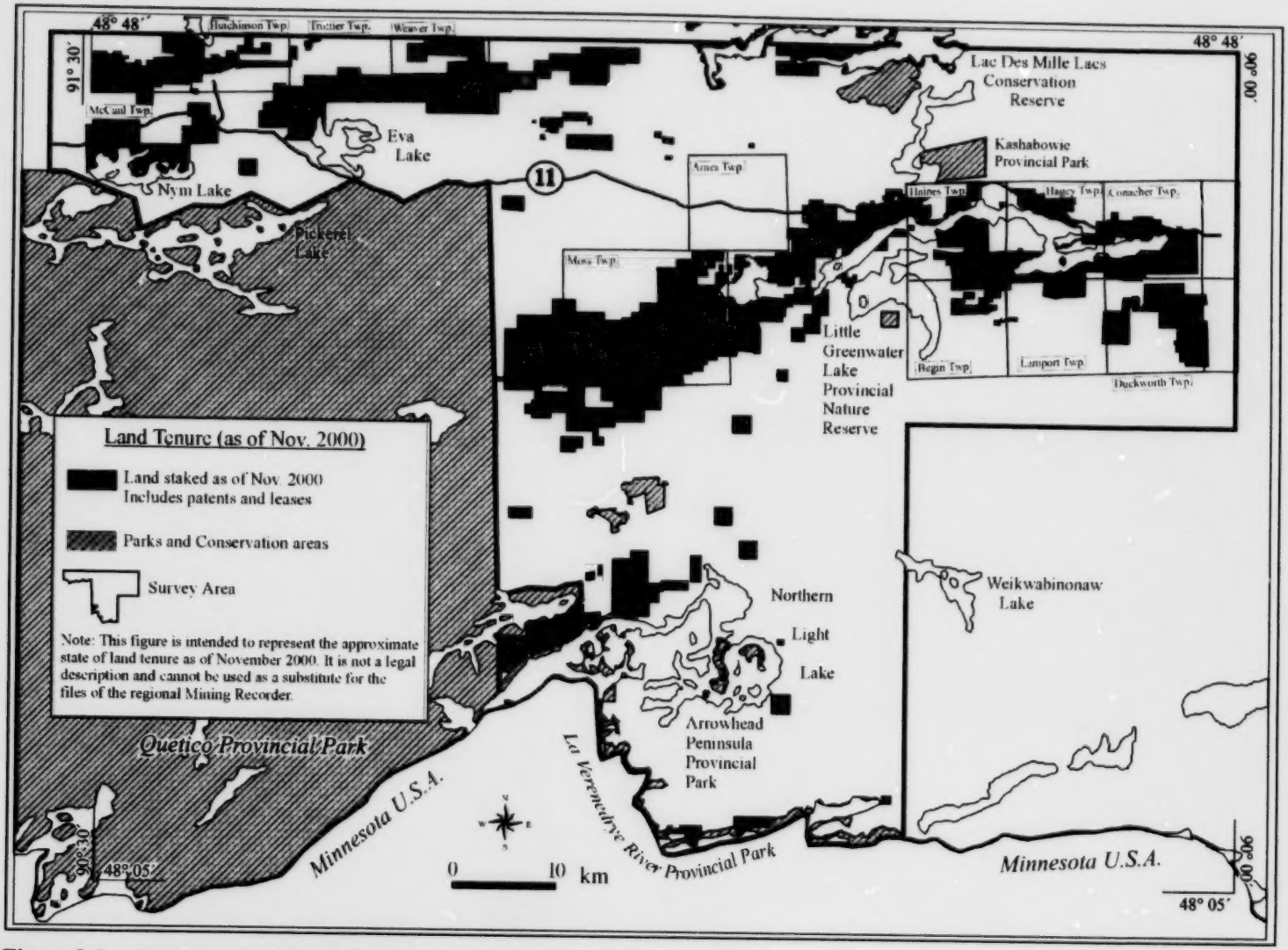

Figure 5. Land tenure map of the Shebandowan survey area as of November 2000.

Some multi-site anomalies can be the result of improper preparation or analysis. The samples collected in the field are prepared and analyzed in sequence. Therefore, it is possible that some mixing between adjacent samples can occur during preparation or analysis and result in an apparent spatial grouping in one or more elements. Although every effort is made to detect and prevent these kinds of errors, the reader is advised to review all data when assessing the validity of an anomaly.

The magnitude or intensity of the anomaly is an important consideration when evaluating an anomalous area. The magnitude of an anomaly may not be a reliable indicator for assessing one area to be more anomalous than another. A number of factors effect the magnitude of an anomaly. These factors include: size of the deposit; depth and distance of the mineralization from the lake; and the various limno-geochemical characteristics of the lake. The Ni-Cu-PGE deposit at the Shebandowan Mine is a good example of the effect of magnitude. Lake sediment sites in Lower Shebandowan contain elevated values of Ni, Pt and Pd and very low Cu values. Although this area would be considered anomalous, the magnitude of the values does not relate directly to the known economic mineralization hidden beneath the lake. The "anomalousness" of an area should be assessed on multi-site and multi-element anomalies along with other geochemical, geological and geophysical information available.

Area 1: Squeers Lake; Ni, Cu, Pt

Elevated to highly anomalous values of Ni and Cu occur over a wide area extending from Waverly Lake east to Squeers Lake and south along the southeastern contact of the Hood Lake Stock into Deatys Lake. Elevated to anomalous Ni values occur in 3 lake sediment sites in Deatys Lake. Sites 372 and 334 also contain weakly anomalous Pt values of 4.8 and 4.3 ppb and elevated Cr values. Site 325 located 2 km northeast of Deatys Lake contains elevated Ni and highly anomalous Cu. North of site 325, anomalous Ni and Cu values follow the contact of the Hood Lake Stock into Waverly Lake and follow mafic-ultramafic intrusive rocks into Grouse Lake. The highest Pt and Pd values in the survey area are from a lake sediment site in Grouse Lake. Site 379 returned a Pt value of 34.7 ppb and a Pd value of 36.7 ppb. This site also contains a weakly anomalous value of 11.5 ppb Au (FA). Site 644 located 600 m south returned a Pt value of 3.8 ppb and an elevated Cu value. Anomalous Ni and Cu values were obtained in Grouse Lake from lake sediment sampling completed by the GSC (Friske, Hornbrook et al. 1990). Copper mineralization was discovered in a massive mafic to ultramafic flow located on the northwestern shore of Watershed Lake (Osmani 1997). Similar Cu mineralization was reported from a mafic to ultramafic flow southwest of Squeers Lake. Anomalous Ni and Cr mineralization occur in a peridotite east of Waverly Lake (Osmani 1997). The anomalous suite of elements present in lake sediments and the known showings in the Squeers Lake area indicates the potential for base and/or PGE mineralization related to mafic/ultramafic rocks. The pattern of anomalous elements along the eastern edge of the Hood Lake Stock indicates potential mineralization related to late to post tectonic intrusive sanukitoid suite rocks. The Hood Lake Stock contains anomalous Sr and other large-ion-lithophile-elements (LILE) similar to the known sanukitoid rocks of the Icarus intrusion located 30 km to the south. The anomalous PGE and base metal values in Grouse Lake should be investigated for potential mineralization related to the mafic/ultramafic intrusive rocks in the area. As of November 2000, 3

claims covered much of the ground in the Grouse Lake area, 2 claims were located southwest of Squeers Lake (along the Camp 517 road) and one claim was located at the south end of Deatys Lake.

Area 2: Home Lake; Ni, Cu, Au, Cr, Pb, Zn, Cd, Mo

Several sites extending from Home Lake to Redfox Lake contain elevated to highly anomalous values of Ni, Cu, Au (INAA), Au (FA), Cr, Pb, Zn, Cd and Mo. Site 680 located 1.5 km southwest of Home Lake contains weakly anomalous Pt and Pd, elevated Ni and an anomalous Cu value. Highly anomalous Ni and Zn values were returned from 2 sites (674, 683) in Home lake. These sites also contain anomalous to highly anomalous values of 77 and 85 ppm Cr, 122.3 and 126.8 ppm Cu, and one value of 15.8 ppm Pb from site 674. Sites 675 and 677, located 1 km southeast of Home Lake, returned highly anomalous values of Ni. Values of 77.2 ppm Cu, 94.3 ppm Cu and 6.5 ppb Au (FA) were returned from 3 separate sites in this same area. Felsic flows and pyroclastic metavolcanic rocks to the north of Home Lake are intruded by diorite, quartz diorite and gabbro. South of Home Lake, the area is underlain by ultramafic to mafic intrusive rocks. Approximately 1.5 km south of Home Lake, the Knife Lake Fault separates the ultramafic intrusive rocks from the Myrt Lake Batholith (Harris 1968, 1970). The base metal signature in the area extends northeast of Home Lake into Wye and Redfox lakes. Site 671 in Wye Lake contains elevated Ni and Cr values and site 669 in Redfox lake contains highly anomalous Cu and Cr with anomalous Ni, Pb and Mo values. A second site (668) in Redfox Lake contains probable false anomalies due to the scavenging effects of Fe and Mn. Values of 10 and 13 ppb Au (FA and INAA, respectively) were also obtained from site 669. The GSC obtained a 10 ppb Au value from Redfox Lake and anomalous Cu and Mo from other lakes in the area (Friske, Hornbrook et al. 1990).

The geological setting and anomalous suite of elements collected in this survey indicate a potential for Ni-Cu-PGE-Au mineralization related to mafic/ultramafic intrusive rocks in the area. Along with the distinct mafic-ultramafic hosted mineralization potential, the area also contains a VMS base metal signature. The previously mentioned Cu, Zn and Pb anomalies in Home Lake also occur with anomalous and highly anomalous values of Cd. Site 672 located in northern Wye lake returned a highly anomalous Zn value with elevated Cu, Cd and Mo values. Chalcopyrite and pyrite mineralization is described from showings in the Redfox Lake area (Harris 1970). One showing between Wye and Redfox lakes consists of disseminated chalcopyrite in an elongate body of dacite porphyry. Small amounts of chalcopyrite and pyrite occur in rhyolite inclusions and fractures within a dacite porphyry body on the south shore of Redfox Lake. Sphalerite, chalcopyrite, cuprite, pyrrhotite and pyrite occur in a 1.5 m wide mineralized zone within rhyolite along the northern shore of Home Lake. A chip sample across the zone returned 1.24 % Cu, 0.24 % Zn and a trace of Ni (Harris 1968). Graphite is also reported from several drill holes in the area. The anomalous suite of elements and the variety of rock types in this area indicate several possibilities for base and or precious metal mineralization in the Home Lake Area. As of November 2000, one claim was located in the Home Lake area.

Area 3: Greenwood Lake; Au, Cu, Mo, Ag, REEs

A string of lakes crossing the Myrt Lake Batholith contain elevated to anomalous values of Au, Cu, Pb, Mo, Ag, REEs, W and S. The anomalous area extends from Plummes Lake in the southeast to Windblown Lake in the northwest. Weakly anomalous Au (INAA) values ranging from 7 to 10 ppb occur in 8 lake sediment sites. Fourteen sites contain weakly anomalous Au (FA) values ranging from 5.8 to 9.7 ppb. The anomalous Au (FA) values are corroborated by the Au (INAA) method in 4 of these lakes. Lake sediment sampling completed by the GSC returned numerous gold values throughout the Myrt Lake Batholith (Friske, Hornbrook et al. 1990). Copper values range from 75.8 to 123.4 ppm at 13 lake sediment sites.

The Myrt Lake Batholith separates and intrudes the metavolcanic rocks of the Shebandowan and the Saganagons greenstone belts (Harris 1968, 1970). There are no known mineralized showings in the Greenwood Lake area and the cause of the anomalies is uncertain. Medium grained granite and pegmatite dikes intrude the granitic rocks at Greenwood, Hew and Dart lakes (Harris 1968, 1970). A rafted body of diorite occurs south of Singabits Lake (Harris 1968). The Myrt Lake Batholith contains higher background U values than most of the rocks of the Wawa Subprovince in the survey area. Based only on the suite of anomalous elements, the Myrt Lake Batholith contains similarities to Cu-Au porphyry and Olympic Dam type mineralization. As of November 2000, there were no claims in the area but small areas along Greenwood and Singabits Lakes were withdrawn from staking.

Area 4: Bemar Lake; Au, Ni, Cr, REEs

The contact between the Myrt Lake Batholith and the metavolcanic rocks of the Saganagons greenstone belt lies along Bemar Lake. The granite is in fault contact with and intrusive into the metavolcanic rocks. Inclusions of hornblende schist increase in the granite near the greenstone contact (Harris 1968). Outcrops of peridotite are found along the contact further to the northeast of Bemar Lake. Elevated to anomalous values of Ni, Cr, Co, Ti and Mg occur in several lake sediment sites along Bemar Lake. Site 1447 also contains anomalous values of Au and Zn with elevated Fe values that may indicate potential metal scavenging processes. North of Bemar Lake and within the batholith, elevated to anomalous values of Au and REEs occur in many lake sediment sites. Sites 778, 882, 1442 and 1449 contain appreciable amounts of Fe and Mn with anomalous levels of Ni, Zn and Co. It is probable that the levels of metals in these samples are attributable to metal scavenging and will be disregarded in the description of the area. Weakly anomalous values of Au (FA) ranging from 5.8 to 9.5 ppb were obtained from 7 sites. Sites 1438 and 1450 also contained corroborating Au (INAA) values. Lake sediment sampling completed by the GSC (Friske, Hornbrook et al. 1990) obtained 6 Au values ranging from 4 to 9 ppb in this area. Elevated to anomalous values of REEs occur in 9 lake sediment sites from the present survey.

The anomalous elements along the contact of the Myrt Lake Batholith with the metavolcanic rocks indicates potential base metal mineralization related to mafic to ultramafic intrusive rocks. The Au and REE values within the batholith are similar to the anomalies found at Area 3, Greenwood Lake. Bemar Lake is located north and east of Quetico Provincial Park. As of November

2000, 3 claims were located on the south shore of the eastern end of Bemar Lake.

Area 5: Mowe Lake; Ni, Cr, Ti, Pt, Pd

Two north trending linear anomalies occur in the Mowe Lake area. The trends are best defined by elevated to highly anomalous values of Ni, Mg, Cr, Ti, Li, K, Na, Rb and Th. The western string of anomalies extends from Northern Light Lake in the south, through Mowe Lake and into Plummes Lake in the north. The eastern string of anomalies extends from Savage Bay in the south to Whitefish Lake in the north. Higher values of Ni and Cr are found in the western anomalous trend. Lake sediment samples from Mowe Lake returned weakly anomalous values of 3.7 and 5.9 ppb Pt, 5.8 ppb Pd and 1 site returned an elevated Cu value. Site 786, located at the south end of Mowe Lake, contains high values of Fe and Mn, which may indicate that potential metal scavenging has occurred. The eastern anomalous trend contains elevated to anomalous Au, Cu, Pt and Pd values in several small lakes located north of Savage Bay. Values of 5.5 and 6.2 ppb Pd were obtained from sites 1485 and 1489. Pt values from 4 sites in this area range from 3.9 to 4.4 ppb and 2 sites contain elevated Cu values. Site 415 contains a weakly anomalous Au (FA) value of 7.9 ppb. The lake sediment program conducted by the GSC shows elevated to anomalous values of Co, Cu, Ni, Cr and Mo in the Mowe Lake area (Friske, Hornbrook et al. 1990).

The Mowe Lake area is underlain by a diorite-monzonite-granodioritic intrusion that Harris (1968) believed to be part of the Saganagons Batholith. Large inclusions of diorite and metapyroxenite were noted within the intrusion in the Mowe and Plummes lake areas (Harris 1968). The eastern contact of the Saganagons intrusion also contains a border phase of diorite and metapyroxenite. The Saganagons intrusion is bordered on the east by tonalitic gneiss and metavolcanic rocks of the Saganagons greenstone belt on the west. Hornblende schists ranging from a few millimetres to 300 m wide occur in the tonalitic gneiss complex. The anomalies in the Mowe Lake area may be related to the mafic phases within the Saganagons intrusion and metavolcanic rocks within the tonalitic gneiss. This area may be prospective for base-PGE mineralization similar to the South Arm, Icarus and Melvin Lake areas. As of November 2000, a large claim block was located near the western shore of Mowe Lake and a small claim block was located on Ghee Lake.

Area 6: Icarus Lake; Ni, Cu, Cr, Au, Ag, Pb, REEs

The Icarus Lake area is located in the southeastern portion of the map area about 7 km southeast of Northern Light Lake. The area is underlain by a large intermediate to felsic intrusive body (Icarus intrusion) and gneissic tonalitic rocks (Stern et al. 1989, Ontario Geological Survey 1991). The Icarus intrusion is a late to post-tectonic intrusion that contains the sanukitoid suite of rocks (Stern et al. 1989). The area contains numerous lake sediment anomalies that lie within and along the edges of the Icarus intrusion. Cr in lake sediments is most anomalous along the southern and western edge of the intrusion with a total of 32 lakes containing elevated to highly anomalous Cr values. Cu is anomalous to highly anomalous in 8 lakes and elevated in 7 others. The anomalous Cu occurs along the southern portion of the intrusion. Lake sediment sampling completed by the GSC returned

anomalous Cr and Cu in the Icarus Lake area (Friske, Hornbrook et al. 1990). Ni is elevated to anomalous in 9 lakes throughout the area. Elevated to anomalous values of Au, REEs, Ag, Mg, Ti and Pb occur in a few lakes. One weakly anomalous Pd value of 5.6 ppb occurs in Sunbow Lake and a weakly anomalous Pt value of 3.7 ppb occurs in Icarus Lake. A weakly anomalous Au (INAA) value of 7 ppb occurs in a small lake south of Sunbow Lake and is corroborated by a Au (FA) value of 8.6 ppb. A large magnetic anomaly is visible on the Total Magnetic Field map of Ontario in the Icarus Lake area (Gupta 1991). This area may warrant further investigation for potential PGE and base metal mineralization. As of November 2000, one claim block was staked along the western shore of Icarus Lake covering the weakly anomalous Pt value obtained in the area.

Area 7: Gunflint Lake; Ni, Cu, Pd, Pt, Zn, Au, Ag, As, Cr, REEs

Gunflint Lake is located in the southern portion of the survey area near the Ontario-Minnesota border. A small lake located about 2 km north of Gunflint Lake (site 357) contained an anomalous Pt value of 21.6 ppb and a low Pd value of 4.9 ppb. No other base metal anomalies occur in this lake. Quality control assessment of the Pt data indicates that this high value could be artificially elevated and some caution is advised. Several lakes north and west of site 357 contain weakly anomalous values of Pt in lake sediments. Site 361, located in Magnetic lake, contains elevated to anomalous Pt, Pd, Ni, Cu, Zn and Co. This sample also contains high values of Fe and Mn, which may indicate potential metal scavenging processes. The highest Ag value obtained in the survey (site 306) is from a small lake located about 2 km east of site 357. Site 306 contains anomalous to highly anomalous values of Au (INAA), Ag, Cd, Cr, Ni, Sc and REEs. Lake sediment samples collected south of site 306 contain elevated to anomalous values of As, Cu, Pb, Ni, Pd, Pt, Ag, REEs, W and Zn. The Zn values obtained in this area are the 3 highest values in the entire dataset.

The bedrock geology of the area consists of Proterozoic sedimentary rocks of the Animikie Group and overlying diabase sills. Archean mafic to intermediate metavolcanic rocks underlie the Animikie Group rocks to the east and the Saganagons batholith lies north of the area. The Gunflint iron formation underlies both Gunflint and Magnetic lakes. The northeastern portion of the Duluth Complex lies several kilometres to the south in Minnesota, U.S. Lake sediment sampling completed by the Geological Survey of Canada (GSC) returned an anomalous Au value of 7 ppb from Magnetic Lake and anomalous Ni, Cu, Cr, Zn and Co in the vicinity of Gunflint Lake (Friske, Hornbrook et al. 1990).

The anomalous suite of elements occurring in the Gunflint Lake area may suggest a possible mafic/ultramafic intrusive source rock. Ni-Cu-PGE mineralization is associated with the Crystal Lake Gabbro and at the base of the Duluth Complex. Elsewhere in northwestern Ontario, silver veins are known to occur along the contact of the diabase sills and the Rove Formation of the Animikie Group. As of November 2000, the northern portion of the area was open for staking. A small claim block was located in the southern portion of the area, along the boundary with La Verenedrye River Provincial Park.

Area 8: Shekaka Lake; Cr, Ni

The Shekaka Lake area is located in the southeastern corner of the survey area about 1 km north of Northern Lake. A small lake less than 1 km north of Shekaka Lake (site 19) returned the highest Ni (209.8 ppm) and Cr values (236 ppm) obtained in the survey area. The site also returned an elevated Cu value. Three other lakes south and east of site 19 returned anomalous to highly anomalous values of Cr and 1 elevated value of Ni. Low Au (INAA) values ranging from 4 to 5 ppb were obtained from sites 18, 19 and 22. These lakes were not sampled in the GSC lake sediment program, but Au values of 5 and 8 ppb were obtained from Northern Lake (Friske, Hornbrook et al. 1990). The bedrock geology consists of Proterozoic diabase sills and Animikie Group sedimentary rocks (Ontario Geological Survey 1991). The anomalies in this area are similar to those found in the Gunflint Lake area (Area 7). The area may have a base metal potential related to mafic/ultramafic intrusive rocks. The area lies next to La Verenedrye Provincial Park.

Area 9: Melvin Lake; Pt, Cr

The Melvin Lake area is located approximately 4 km south of Northern Light Lake. Six lake sediment sites returned weakly anomalous Pt values ranging from 4.0 to 4.8 ppb. The area also contains 5 elevated and 3 anomalous values of Cr. Site 353 in Melvin Lake returned a weakly anomalous Au (INAA) value of 6 ppb. Lake sediment sampling completed by the GSC returned 4 and 5 ppb Au values with anomalous Cr in the Melvin Lake area (Friske, Hornbrook et al. 1990). The area is underlain by archean tonalitic and diorite-granodiorite-syenite suite rocks (Ontario Geological Survey 1991). The Melvin Lake area is located along the western edge of the Icarus intrusion which contains the sanukitoid suite of rocks (Stern et al. 1989). The Melvin Lake area may contain potential PGE mineralization related to sanukitoid rocks. As of November 2000, the area was open for staking.

Area 10: South Arm; Pt, Ni, Cr

Three lake sediment sites (387, 388 and 409) in the South Arm of Northern Light Lake contain weakly anomalous values of Pt and elevated to anomalous values of Cr. Sites 409 and 387 contain elevated to highly anomalous values of Ni, Ti and Mg with low values of 4.6 and 5.1 ppb Pd. Site 387 also contains an elevated Cu value. The area is underlain by diorite-monzonite-granodioritic rocks of the Saganaga Batholith (Ontario Geological Survey 1991). It is possible that the anomalous elements in this area are related to a more mafic phase of the Saganaga Batholith. The batholith is part of a suite of late to post tectonic intrusions that may contain the sanukitoid suite of rocks (Stern et al. 1989). As of November 2000, the area was open for staking.

Area 11: Horseshoe-Pinecone Lake; Cu, Ni, Pt, Pd

Horseshoe and Pinecone lakes are located in central Begin Township. Elevated to highly anomalous values of Cu were returned from 13 lakes in the area. Site 737 in Horseshoe Lake contains 136.4 ppm Cu, 49.1 ppm Ni, 16 ppm Co, 7.1 ppb Pd, 4.1 ppb Pt and 126.5 ppm Zn. The Horseshoe Lake area is underlain by mafic metavolcanic rocks and intrusive mafic and ultramafic rocks. A highly anomalous value of Ni was obtained from Skum Lake and 2 elevated values of Ni were obtained from sites to the north of Horseshoe Lake.

Several sites located 2.5 km south of Horseshoe Lake contain significant values of Cu, Ni, Pt, Pd and Zn. Site 735 returned values of 159.6 ppm Cu, 49.9 ppm Ni, 4.8 ppb Pt and 5.6 ppb Pd. Site 734, located 300 m south, returned values of 160.8 ppm Cu, 5.5 ppb Pd and 116.2 ppm Zn. Elevated to anomalous Cu values were also returned from 4 sites located south and east of site 734. The area is underlain by mafic to intermediate metavolcanic rocks and banded iron formations intruded by mafic and ultramafic intrusive rocks. Showings of pyrite, chalcopyrite and bornite are known from sheared mafic metavolcanic rocks located to the north of site 174. A grab sample from a Fe-carbonatized quartz vein, located 500 m west of site 171, yielded an assay of 4731 ppb Au (Osmani 1997).

The Pinecone Lake area is located at the southern boundary of the greenstone belt along the contact with granitic batholithic rocks. The Tinto Lake Fault Zone defines the southern boundary of the greenstone belt. Sites 718 and 720 returned values of 87.5 and 79.3 ppm Cu, 63.1 and 47.6 ppm Ni, 8.3 and 6.2 ppb Pd, 4.6 ppb Pt and 145.5 ppm Zn. Elevated to anomalous values of Cr, Co, Mg and Ti were also obtained from these sites. Numerous mafic to ultramafic rocks intrude the metavolcanic sequences in the area. Gabbro and amphibolitic rocks south of Pinecone Lake are mineralized with pyrite and chalcopyrite (Osmani 1997). Grab samples from quartz veins and shear zones north and southwest of Pinecone Lake contain anomalous Au (Osmani 1997).

Elevated to anomalous Cu occurs in 4 sites located 3.5 km southwest of Pinecone Lake. Three of these sites also contain elevated to highly anomalous Ni. Lake sediment sampling completed by the GSC returned elevated to anomalous Cu from lakes in the Horseshoe-Pinecone lakes area (Friske, Hornbrook et al. 1990). A recent till sampling program completed in this area of Begin Township also identified a large area with anomalous Ni, Cr, Co, Pt, Pd, Cu, Cd, As and Zn (Bajc 2000). The anomalous suite of elements outlined in this area and the known geology indicates potential for base and precious metal mineralization related to mafic/ultramafic intrusive rocks. Gold and PGE mineralization associated with base metals is hosted by a peridotite sill at the Shebandowan Mine. The possibility of Au mineralization related to quartz veins and shear zones in the area was indicated by Osmani (1997) and the present survey obtained elevated to anomalous As in lakes along the Tinto Lake Fault Zone. As of November 2000, several claim were held on Horseshoe Lake and one claim was located north of Star Lake.

Area 12: Kekekuab Lake; Ni, Cu, Cr

Kekekuab Lake is located near the southern boundary of Lamport township. The area is underlain predominantly by mafic with minor felsic metavolcanic rocks, ultramafic to mafic intrusive rocks

and late felsic to mafic intrusive rocks of the Kekekuab stock. Site 462, located at the western end of Kekekuab Lake, returned elevated Cr and Ti, anomalous Ni, Cu and Co and highly anomalous Mg values. Site 461 located 1.5 km southeast in Cascade Lake returned elevated Ni and Cr and anomalous Mg values. The anomalous elements from the 2 sites in the Kekekuab Lake area suggest a mafic to ultramafic intrusive body with potential Ni-Cu mineralization. As of November 2000, there were no claims in the area.

Area 13: Cunniah Lake; Cu, Mo, Au

The Cunniah Lake area is underlain by intercalated mafic to felsic flows, volcanic breccias and tuffs (Harris 1968). Mafic metavolcanic rocks dominate the area with minor intermediate to felsic flows and breccias. Quartz veins and quartz-feldspar porphyry dikes are abundant south and east of Saganagons lake and south and west of Cunniah Lake (Harris 1968). Mineralization in the area consists of Au, chalcopyrite and pyrite in quartz veins and quartz-feldspar porphyry dikes. Elevated to anomalous values of Cu were obtained from 18 lakes in the area. One sample with a value of 13 ppb Au (INAA) and elevated values of Cu and Pb was returned from Cunniah Lake. Sampling completed by the GSC returned a value of 6 ppb Au at this same site. A gold occurrence described by Harris (1968) is located west of the south end of Cunniah Lake where chip samples of a quartz vein returned values of 0.01 and 0.02 oz/ton Au. Site 789 located about 2.5 km west of Cunniah Lake returned a Au (FA) value of 6.1 ppb along with elevated values of Cu and Mo. Another site (636), located 1 km southeast of Saganagons Lake, returned a Au (FA) value of 14 ppb. Numerous quartz-feldspar porphyry dikes are noted along the shoreline of this lake (Harris 1968) but no mineralization is mentioned. A value of 7 ppb Au was obtained in the GSC survey from a small bay in Saganagons Lake about 2 km west of site 636 (Friske, Hornbrook et al. 1990). Gold mineralization associated with quartz veining, shear zones and quartz-feldspar porphyry dikes should be investigated in the Cunniah Lake area. One site (791) on Nulla Lake returned elevated values of Cu, Zn and Co. The area mapped around Nulla Lake consists of rhyolite and felsic pyroclastic rocks in contact with massive mafic metavolcanic rocks. The area around Nulla Lake may be prospective for VMS hosted mineralization. As of November 2000, most of the area was staked, however, sites 789, 636 and a wide area around 791 were open for staking.

Area 14: Greenwater Creek; Ni, Cu

A small unnamed lake situated between Upper Shebandowan and Greenwater lakes returned highly anomalous Ni and Cu values. Site 41, located 1 km southeast of Copper Island, returned values of 65.9 ppm Ni and 157.5 ppm Cu. The area is underlain by mafic to felsic metavolcanic rocks intruded by mafic to ultramafic sill-like bodies and feldspar porphyries. Anomalous Ni and Cr mineralization was discovered in a mafic to ultramafic flow unit on the western end of the lake (Osmani 1997). There is a potential for base metal mineralization in this area. As of November 2000, the area was open for staking.

Area 15: Nym Lake ; Ni, Zn, Co, Cd, Ti, As, Cr

The western and eastern end of Nym Lake contains numerous lake sediment sites with elevated to highly anomalous concentrations of Ni, Zn, Co, Cd, Ti, As and Cr. Other elements with highly anomalous concentrations include Al, Cs, Mn, Ga, K, Li, Mg, Rb and Sn. The area is underlain by granitic rocks of the Quetico Batholithic Complex. The highest Ni value of 74.9 ppm in Nym Lake (site 879) lies less than 1 km southeast of a known mafic to ultramafic intrusion. The Bergman intrusion forms a small island within the northwestern end of Nym Lake (MacTavish 1999). The intrusion is composed of massive hornblendite and feldspathic hornblendite with 1 to 2 % disseminated pyrrhotite and chalcopyrite throughout. One grab sample yielded 0.28% Cu, 0.07% Ni, 180 ppb Pt and 75 ppb Pd (MacTavish 1999). The suite of anomalous elements obtained in the Nym Lake area appears to be related to mafic-ultramafic intrusions. As of November 2000, most of the area was staked.

Area 16: Heward Lake; As, REE, V, W, Au, Ag, Co

The Heward Lake area features numerous lakes with elevated to highly anomalous values of As, Ag, V, W and REEs. A few of these lakes contain elevated to anomalous Au (INAA), Cd, Pb, Co, Zn, Ni and Cu. The highest Au value of 10 ppb in this area occurs in a small lake about 1 km east of Heward Lake (site 1083). This same lake returned a 20 ppb Au value and a 17 ppb Pt value in a previous lake sediment survey (Dyer 1999). Although Pt and Pd values from the present survey are low in this area, the highest value of 4.4 ppb Pd was obtained from the same lake (site 1083). The bedrock geology consists of metasedimentary rocks intruded by granite pegmatite and smaller units of mafic to ultramafic dikes and plugs (Stone et al. 1995, Pirie 1978). A small mafic/ultramafic dike located west of Heward Lake is approximately 1400 m in length and up to 150 m wide. The intrusion contains minor disseminated sulphides and recent sampling yielded no anomalous base or precious metal values (MacTavish 1999). The Abiwin ultramafic intrusion lies about 2.5 km east of Heward lake along the southern boundary of Weaver and Trottier townships. The intrusion is approximately 200 m long, 40 m wide and contains sulphide mineralization in 3 small, irregular zones. One sample from a sulphide zone returned 2.2% Cu, 0.08% Ni, 39 500 ppb Pt and 3.75 ppm Pd. Subsequent drilling determined the mineralization to have minimal continuity (MacTavish 1999). Lake sediment sampling completed by the GSC obtained values of 3 ppb Pt in each of 2 sites located 3 km northeast of Heward Lake (Friske, McCurdy and Cook 1990).

The anomalous values obtained in the present survey may indicate potential vein gold mineralization. The Quetico fault zone lies about 2.5 km north of Heward Lake. Quartz and tourmaline are indicated in outcrop on the western shore of Heward Lake and numerous lineaments are indicated in the area (Pirie 1978). Gold mineralization is associated with minor tourmaline, arsenopyrite and scheelite in veins elsewhere along the Quetico fault zone (Poulsen 1983). The anomalous REEs in the area may also indicate a potential for rare earth metal mineralization related to pegmatite intrusions. The base metal values obtained in this survey and values obtained by Dyer (1999) suggest the possibility of Ni-Cu-PGE mineralization in the area. The area was staked as of November 2000.

Area 17: Fountain Lake; Au, Cu, Zn, Mo

The Fountain Lake area is located along the eastern boundary of Moss Township. Four sites located along the northern edge of the Hood Lake stock contain elevated to highly anomalous values of Au, Cu, Mo and Zn. Sites 696 and 757, located at the south end of Fountain Lake, contain weakly anomalous values of 7 and 9 ppb Au (INAA) respectively. Site 757 was corroborated by the Au (FA) method and returned a value of 11 ppb. The GSC returned a value of 4 ppb Au in Fountain Lake very close to site 757 (Friske, Hornbrook et al. 1990). Site 696 also returned an elevated Pb and highly anomalous Zn value and site 757 returned an elevated Zn and anomalous Mo value. Site 1419 located 1 km east of Fountain Lake returned a value of 7.6 ppb Au (FA) along with an anomalous Mo and highly anomalous Cu value. Site 697 located in Fountain Lake returned an anomalous Cu value and elevated Mo and Zn values. The bedrock geology is mapped as mafic to felsic metavolcanic rocks near the northern contact of the Hood Lake stock (Osmani 1993b, 1997, Giblin 1964). Potential for Au-Zn mineralization was indicated by Osmani (1997) 700 m southwest of Fountain Lake. Significant Au and Zn mineralization was observed in sheared felsic volcanic rocks near the contact with mafic metavolcanic rocks. Anomalous to highly anomalous Cu, Zn and Ni was observed between the contacts of felsic to intermediate and mafic metavolcanic rocks to the east of Fountain Lake (Osmani 1997). Anomalous values of Au, Zn, Cu and Ag were also obtained from till samples collected in the area to the east of Fountain Lake (Bajc 2000). South of Fountain Lake and within the Hood Lake stock, sites 1421 and 1422 returned elevated to anomalous values of Cu, Mo and Ag. A third site in this area (758) contains probable false anomalies due to the scavenging effects of Fe and Mn. The GSC obtained a value of 10 ppb Au at this site (Friske, Hornbrook et al. 1990). A trace of Au and anomalous copper was found within mineralized monzodioritic rock samples collected in the southwestern portion of the Hood Lake stock (Osmani 1997). The Fountain Lake area has the potential for gold/base metal mineralization. As of November 2000, the entire area was staked.

Area 18: Sawmill Bay; Pd, Pt

Sawmill Bay is located at the western end of Upper Shebandowan Lake. Several lake sediment sites contain weakly anomalous to anomalous Pd values ranging from 5.8 to 8.8 ppb. Sites 1302 and 1303 also contain Pt values of 3.7 and 4.1 ppb. No other significant base or precious metal concentrations occur in these lake sediment sites. A recent till sampling program completed in the Shebandowan area revealed anomalous concentrations of Ni, Cr, Co, Pd, Zn, Cd and As along the extreme end of Upper Shebandowan Lake (Bajc 2000). Rocks along the south and southwest shore of the lake consist of highly sheared gabbros and mafic metavolcanics. Rocks adjacent to the Upper Shebandowan Shear Zone display silicification, chloritization and carbonatization. The Cu mineralization on Copper Island occurs in similarly altered and sheared gabbroic and mafic metavolcanic rocks (Farrow 1993, Osmani 1997). The area may contain potential PGE and base metal mineralization related to mafic to ultramafic intrusive rocks. As of November 2000, most of the area was staked.

Area 19: Loch Smith; Cu, Ni

The Loch Smith area is located north of Loch Erne in central Haines Township. Site 490 contains the second highest Ni value (147.3 ppm) in the survey area. This site also contains a highly anomalous Cu value of 185.7 ppm. Site 432, located 800 m east, contains the second highest Cu value (313.5 ppm) in the survey area. Anomalous copper values also occur in 3 other lake sediment sample sites to the east and south of site 432. The Crayfish Creek fault zone occurs along the northern shore of Loch Smith, southeast through Bowes Lake and extends into the Shebandowan Mine site (Ni-Cu-PGE). In the Loch Smith area, the fault separates the Haines gabbroic-anorthositic complex to the north from the metavolcanic rocks of the Shebandowan greenstone belt to the south. Numerous gabbro-peridotite intrusions occur along the fault zone and within the mafic metavolcanic rocks to the south. Several Ni-Cu showings and prospects are known from the area (Hodgkinson 1968, Osmani 1997) and Discovery Point (Shebandowan Ni-Cu deposit) lies 6.5 km to the southeast. The area contains base metal potential related to intrusive mafic-ultramafic rocks. As of November 2000, the area was completely staked.

Area 20: Burchell Lake; Cu, Au, Ag, Zn, Mo

Elevated to highly anomalous values of Cu, Au, Ag, Zn and Mo occur in numerous lake sediment samples in the Burchell, Skimpole, Span and Hermia lakes area. The area contains numerous Cu, Au, Ag and Ni showings along with the past producing North Coldstream (Cu-Au-Ag) Mine. All of the anomalies in the area occur near known mineralized showings. Skimpole Lake and a smaller lake 1.5 km to the northeast contain Au (FA) values of 9.4, 8.4 and 6.2 ppb. The values were corroborated with Au (INAA) values of 11, 9 and 8 ppb. Elevated to highly anomalous values of Cu, Mo, Zn and Ag were also obtained from these sites. Lake sediment sampling completed by the GSC returned Au values of 7 and 12 ppb from these same sites. The North Coldstream Mine and the East Coldstream gold prospect lie 1.5 km to the northwest of Skimpole Lake and a Cu, Ni, Au, Ag showing occurs on the northeastern shore of the lake. Site 593 was collected near this showing and returned a weakly anomalous Pt value of 4.2 ppb.

Several sites in Burchell Lake contain elevated to highly anomalous values of Cu, Au (FA), Zn, Mo and Pt. Numerous showings located on the western shore of the lake contain Au. Some of these showings contain Cu, Ag and Zn and one showing contains Pt. Significant amounts of pyrite and chalcopyrite occur in sheared felsic metavolcanic rocks and feldspar porphyries in this area. Osmani (1997) indicated the potential for shear zone hosted Au and Cu mineralization along the eastern and western shores of Burchell Lake. One lake sediment sample collect by the GSC in Burchell Lake returned an assay of 10 ppb Au. Anomalous values of Cu and Mo were also obtained in the area (Friske, Hornbrook et al. 1990). Till samples from the Burchell lake area contained anomalous Au, Cu, Ag and Mo (Bajc 2000).

Elevated to anomalous Au (FA), Mo, W and Zn were returned from lake sediment samples in Hermia Lake. Site 699 returned a Au (FA) value of 15.9 ppb. This site also contains anomalous concentrations of Fe/Mn and values should be treated with caution.

The anomalous suite of elements along with the known mineralization and deposits makes

this an obvious area to explore for further shear zone Cu-Au mineralization. As of November 2000, most of the area was staked.

Area 21: Bass Lake; Au, REE, Ni, W, V

The highest value for Au (FA) in the present survey (102.7 ppb) was from a lake sediment sample collected in the southern end of Bass Lake (site 1119). The same site returned anomalous Ni, REEs, W and elevated V and Mo values. The anomalous gold assay at this site was not corroborated by the Au (INAA) method or by sampling completed by the GSC (Friske, Hornbrook et al 1990a).

Site 1117 located 1 km east of Bass Lake contains an anomalous Ni and an elevated Cu value. A small lake located 1.2 km west of Bass Lake returned values of 4 ppb Pt and 10 ppb Pd in the GSC survey. The Pt and Pd values were not corroborated in the present survey. The bedrock geology of the area is mapped as metasedimentary and granitic intrusive rocks (Irvine 1963). The anomalous suite of elements is similar to those in the Heward Lake area. This area should be treated with caution due to the lack of corroboration between the Au assays methods in this survey and the lack of corroboration between this survey and the GSC survey. Several other sites in the immediate area also returned high values of Fe and Mn and contain potential false anomalies.

Area 22: Middle Shebandowan Lake; Ni, Pd, Co, W, V Zn

Sites 1287, 1289 and 1290 contain elevated to anomalous Ni, Pd, Co, Zn, W and V. These sites also contain anomalous to highly anomalous values of Fe and Mn. These are probably false anomalies related to metal scavenging processes. Similar high Fe and Mn occur from sites 1295 and 1298 located in Upper Shebandowan and Threemile Bay. Site 1291 returned a weakly anomalous value of 5.7 ppb Pd. No other significant base metal values were returned from this site. The Haines gabbro-anorthosite complex is located south of site 1291 and was described by Farrow (1993) as having the potential to host a PGE deposit. The anomalous concentrations of Fe and Mn in this area indicate that caution should be used when interpreting the "anomalousness" of these sites. As of November 2000, much of the area was staked.

Area 23: Kashabowie Lake: Pd, Pt

Kashabowie Lake is located north of Haines Township in the northeastern portion of the survey area. Weakly anomalous values of Pd and Pt were returned from 5 sites scattered throughout the lake. Only site 1269 contained both Pt and Pd. These 5 sites contain no other anomalous elements. The bedrock geology consists of granitic intrusive and metasedimentary rocks of the Quetico Subprovince (Kaye 1967). With no other anomalous elements and the apparent lack of favourable geology, these anomalies should be treated with caution. The Kashabowie Provincial Park occurs just to the southeast of site 1269. As of November 2000, there were no claims in the area.

Area 24: Kashabowie River: Pd, As, V, REEs, Fe, Mn

Sites 982 and 998 located about 8 km northwest of the town of Kashabowie contain elevated to anomalous values of Pd, As, V, REEs, Co, Mo, Ti, Fe and Mn. These are probably false anomalies due to elevated metal values from the scavenging effects of Fe and Mn.

CONCLUSIONS

The preliminary results and interpretations discussed in this report have identified a number of precious and base metal exploration target areas. Several new target areas have been delineated for potential Au, PGE and base metal mineralization. Some of the target areas outlined in this report correspond to previously defined areas of potential mineralization based on geological mapping and till sampling (Osmani 1997; Bajc 2000). The target areas outlined by this survey contain multi-element and multi-site anomalies that include Au, Pt, Pd, Ni, Cu, Zn, Mo and REEs.

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Williams, H.R., Stott, G.M., Heather, K.B., Muir, T.L. and Sage, R.P. 1991. Wawa Subprovince; *in* Geology of Ontario, Ontario Geological Survey, Special Volume 4, Part 1, p.485-539.

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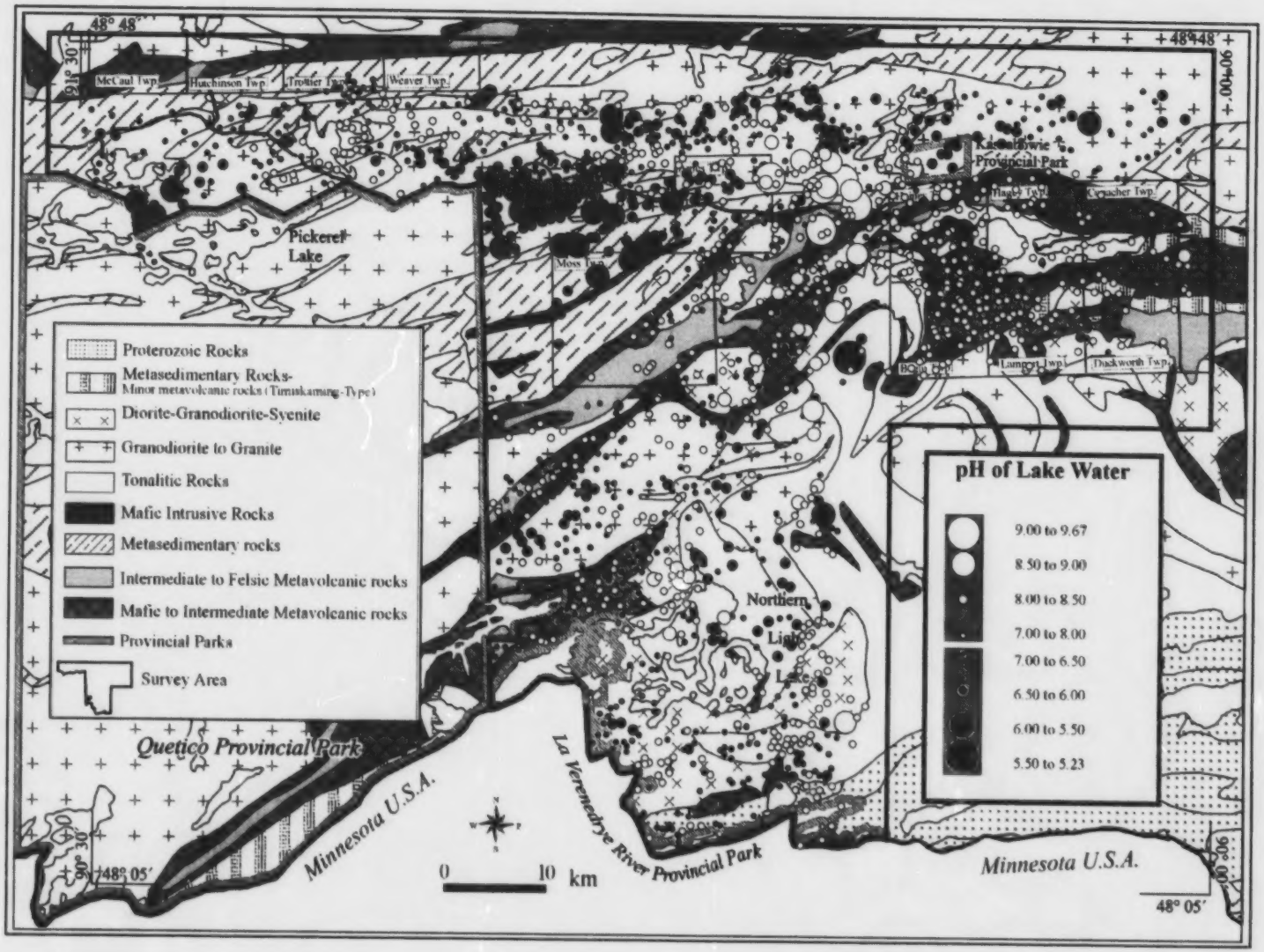
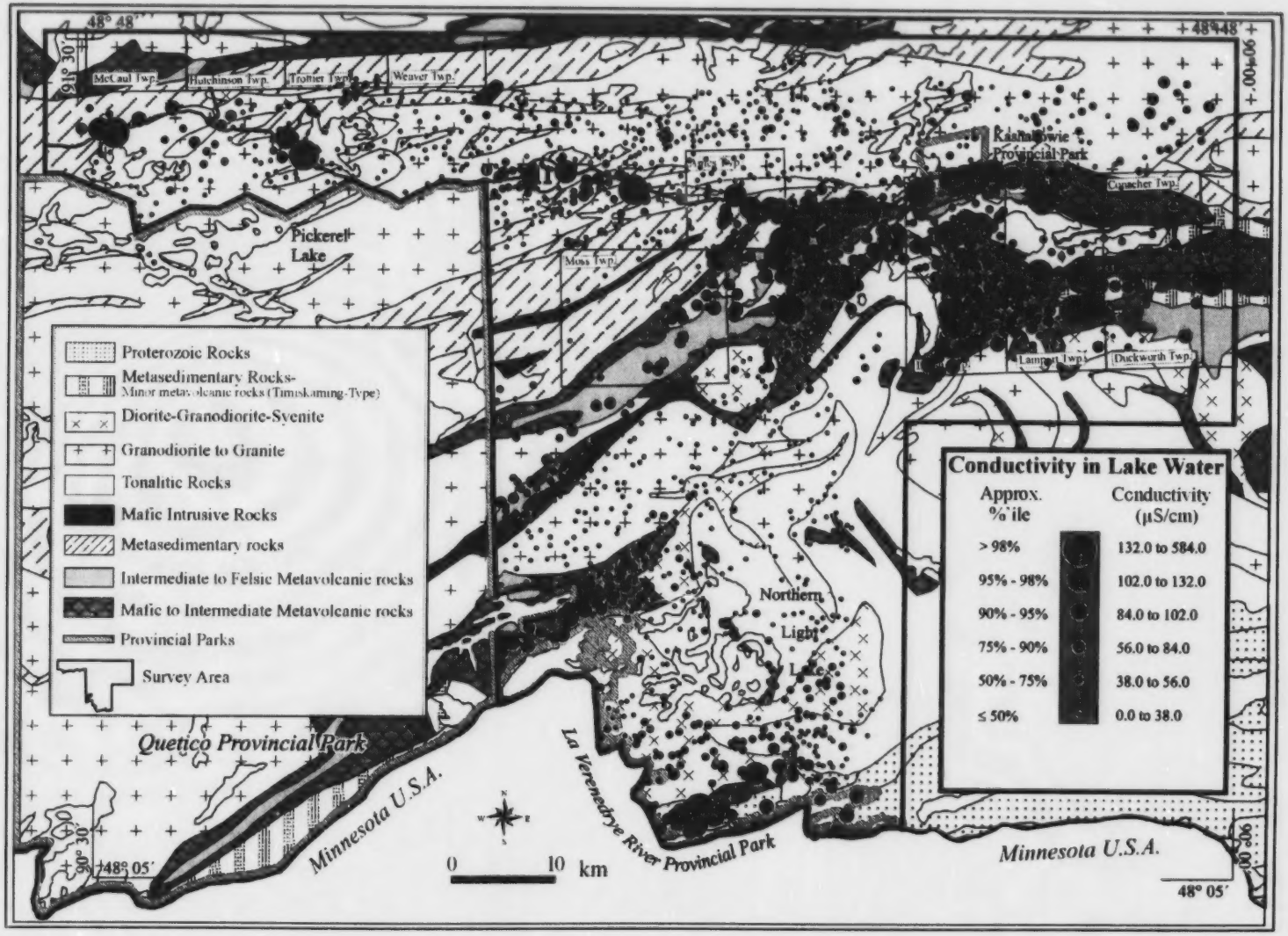
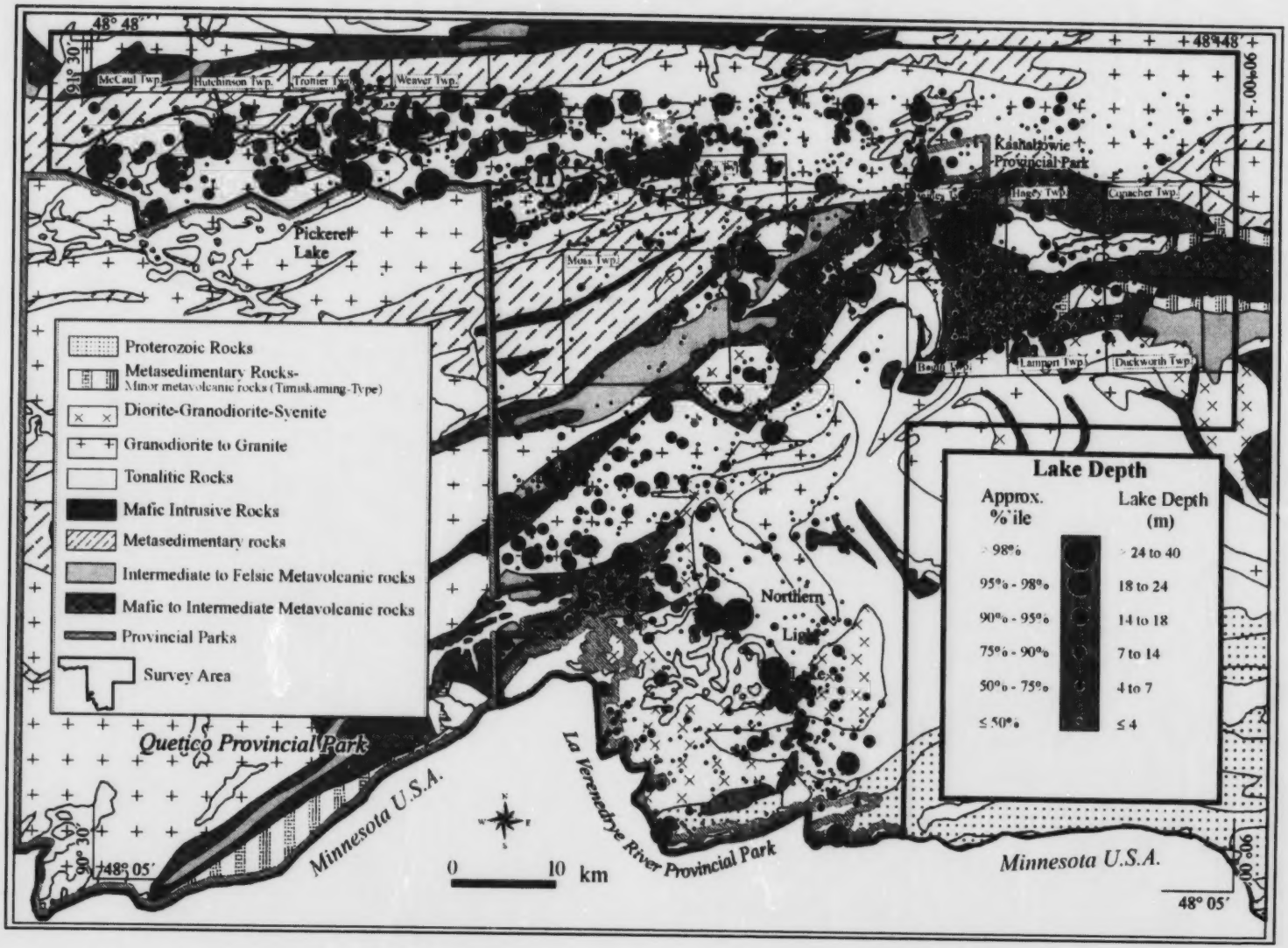
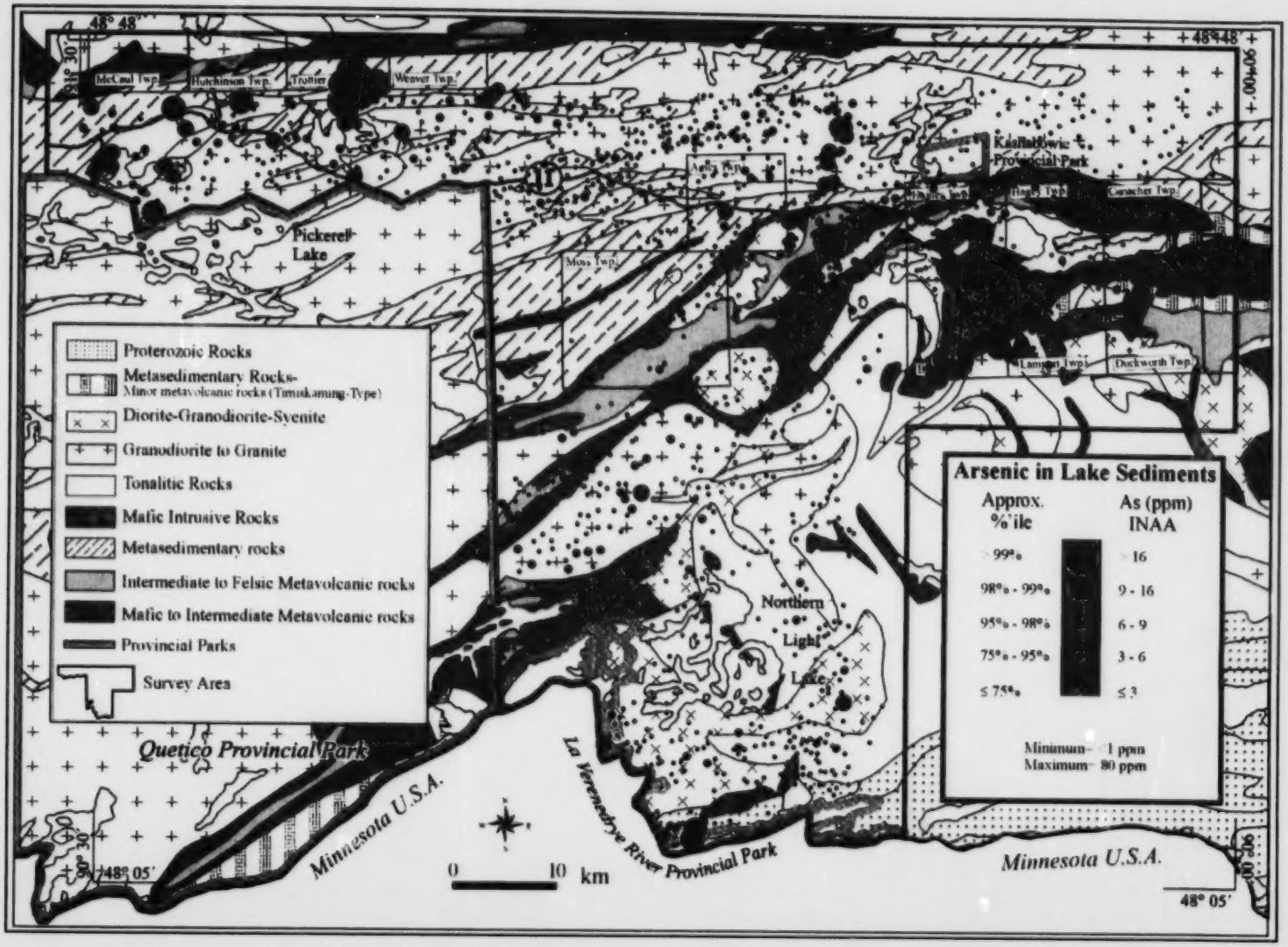
APPENDIX A: **Proportional dot maps of pH, conductivity and lake depth of lake waters.**

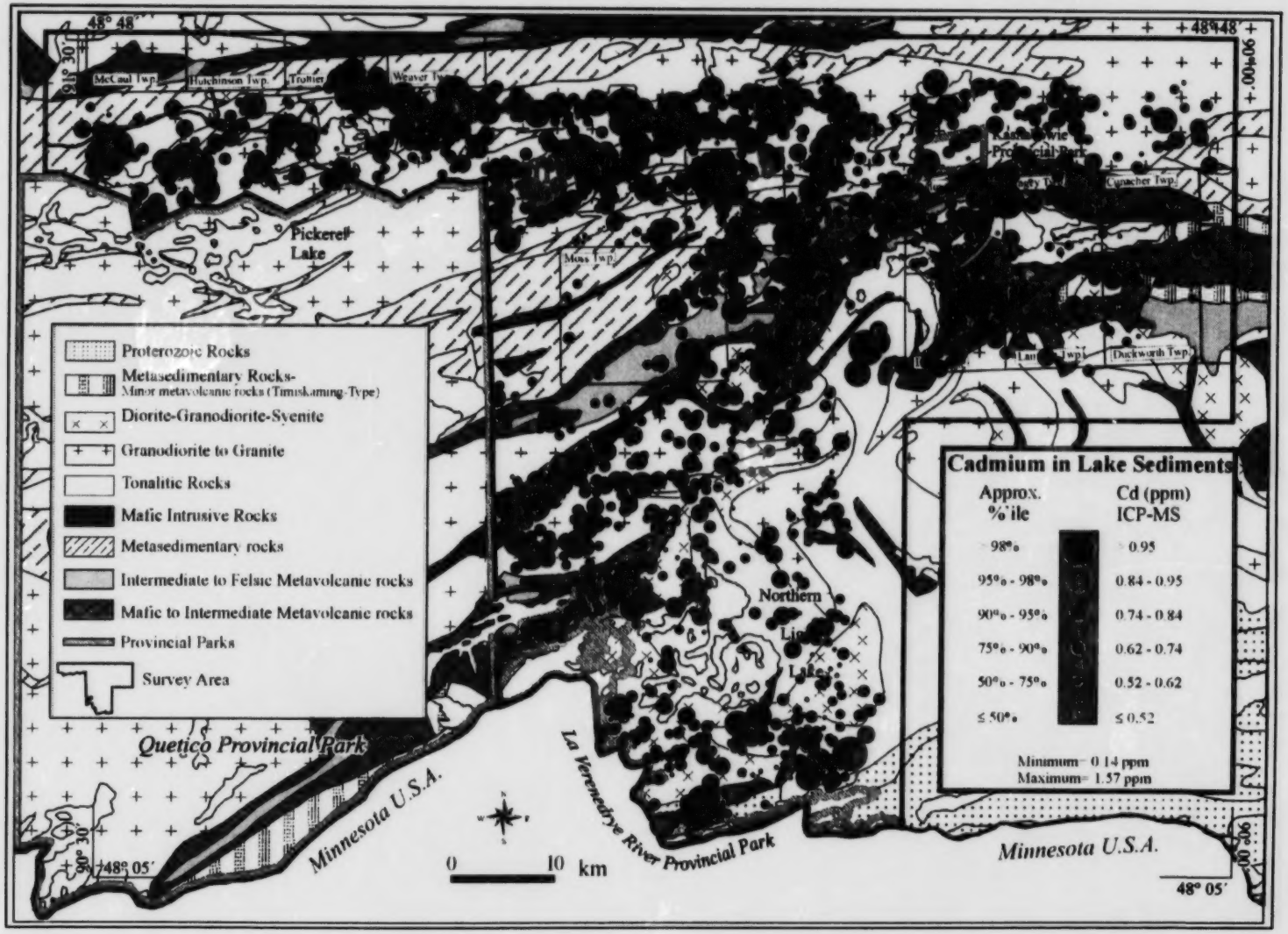

48° 48'
90° 30'
McCaul Twp.
Hutchinson Twp.
Trottier Twp.
Weaver Twp.
Pickerel Lake
Moss Twp.
Kakabeka Provincial Park
Hagey Twp.
Gregacher Twp.
Lamport Twp.
Duckworth Twp.
Northern Light Lake
Proterozoic Rocks
Metasedimentary Rocks-
Minor metavolcanic rocks (Timiskaming-Type)
Diorite-Granodiorite-Syenite
Granodiorite to Granite
Tonalitic Rocks
Mafic Intrusive Rocks
Metasedimentary rocks
Intermediate to Felsic Metavolcanic rocks
Mafic to Intermediate Metavolcanic rocks
Provincial Parks
Survey Area
pH of Lake Water
9.00 to 9.67
8.50 to 9.00
8.00 to 8.50
7.00 to 8.00
7.00 to 6.50
6.50 to 6.00
6.00 to 5.50
5.50 to 5.23
Quetico Provincial Park
Minnesota U.S.A.
La Verendrye River Provincial Park
Minnesota U.S.A.
0
10 km
48° 05'
48° 05'

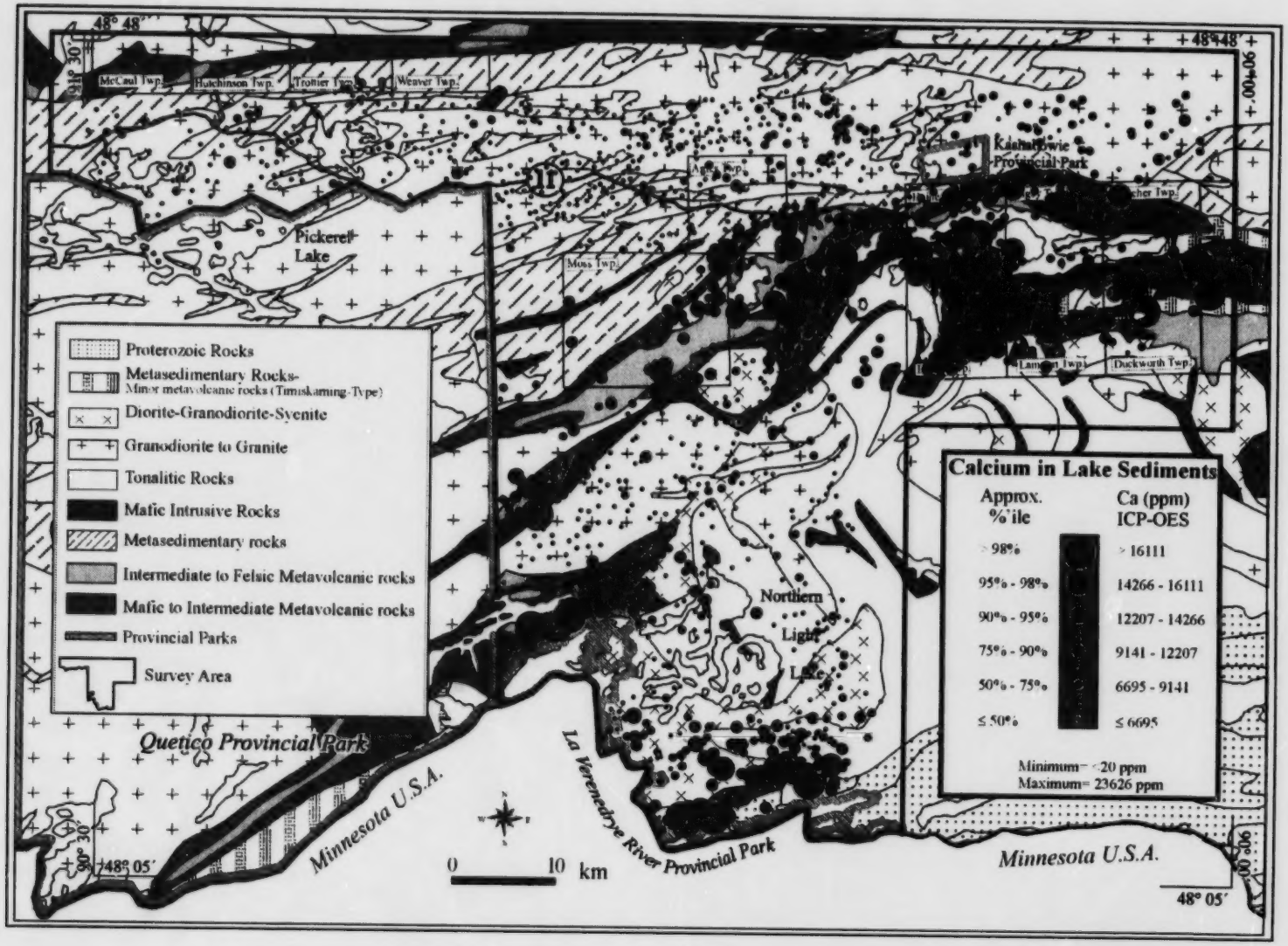

48° 48'
91° 30'
90° 00'
McCaul Twp.
Hutchinson Twp.
Trottier Twp.
Weaver Twp.
Kakabeka Falls Provincial Park
Conacher Twp.
Pickerel Lake
Moss Twp.
Lampart Twp.
Duckworth Twp.
Proterozoic Rocks
Metasedimentary Rocks-
Minor metavolcanic rocks (Timiskaming-Type)
Diorite-Granodiorite-Syenite
Granodiorite to Granite
Tonalitic Rocks
Mafic Intrusive Rocks
Metasedimentary rocks
Intermediate to Felsic Metavolcanic rocks
Mafic to Intermediate Metavolcanic rocks
Provincial Parks
Survey Area
Conductivity in Lake Water
Approx. %'ile
Conductivity (µS/cm)
> 98% 132.0 to 584.0
95% - 98% 102.0 to 132.0
90% - 95% 84.0 to 102.0
75% - 90% 56.0 to 84.0
50% - 75% 38.0 to 56.0
≤ 50% 0.0 to 38.0
Northern Light Lake
Quetico Provincial Park
Minnesota U.S.A.
La Verendrye River Provincial Park
Minnesota U.S.A.
0 10 km
48° 05'

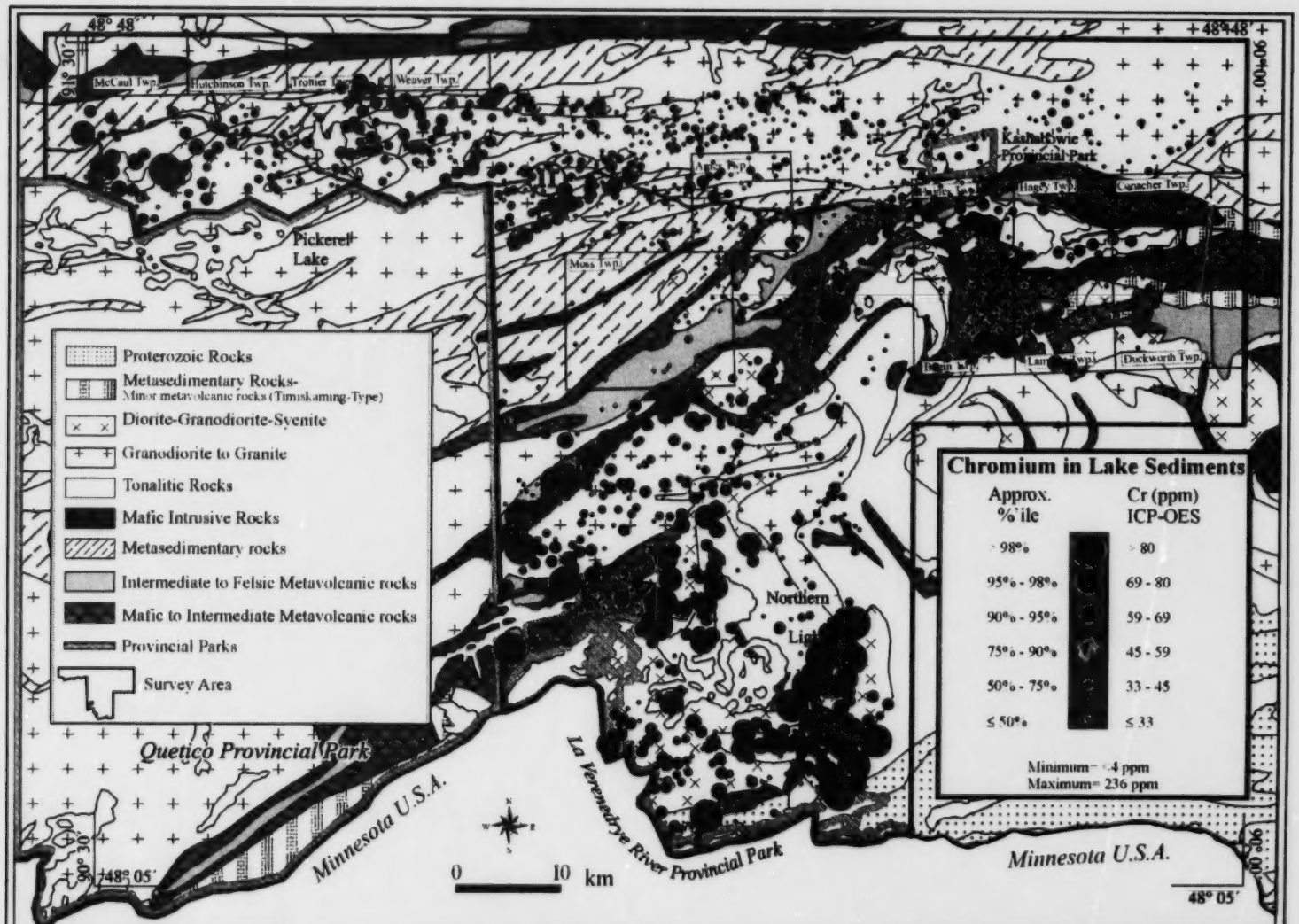

48° 48'
91° 30'
90° 00'
McCaul Twp.
Hutchinson Twp.
Trotter Twp.
Weaver Twp.
Kashaltowie Provincial Park
Hagey Twp.
Cupacher Twp.
Pickerel Lake
Moss Twp.
Lamport Twp.
Duckworth Twp.
Proterozoic Rocks
Metasedimentary Rocks-
Minor metavolcanic rocks (Timiskaming-Type)
Diorite-Granodiorite-Syenite
Granodiorite to Granite
Tonalitic Rocks
Mafic Intrusive Rocks
Metasedimentary rocks
Intermediate to Felsic Metavolcanic rocks
Mafic to Intermediate Metavolcanic rocks
Provincial Parks
Survey Area
Lake Depth
Approx. %'ile
Lake Depth (m)
> 98%
> 24 to 40
95% - 98%
18 to 24
90% - 95%
14 to 18
75% - 90%
7 to 14
50% - 75%
4 to 7
≤ 50%
≤ 4
Northern Light
Quetico Provincial Park
Minnesota U.S.A.
La Verendrye River Provincial Park
Minnesota U.S.A.
0
10 km
48° 05'
48° 05'

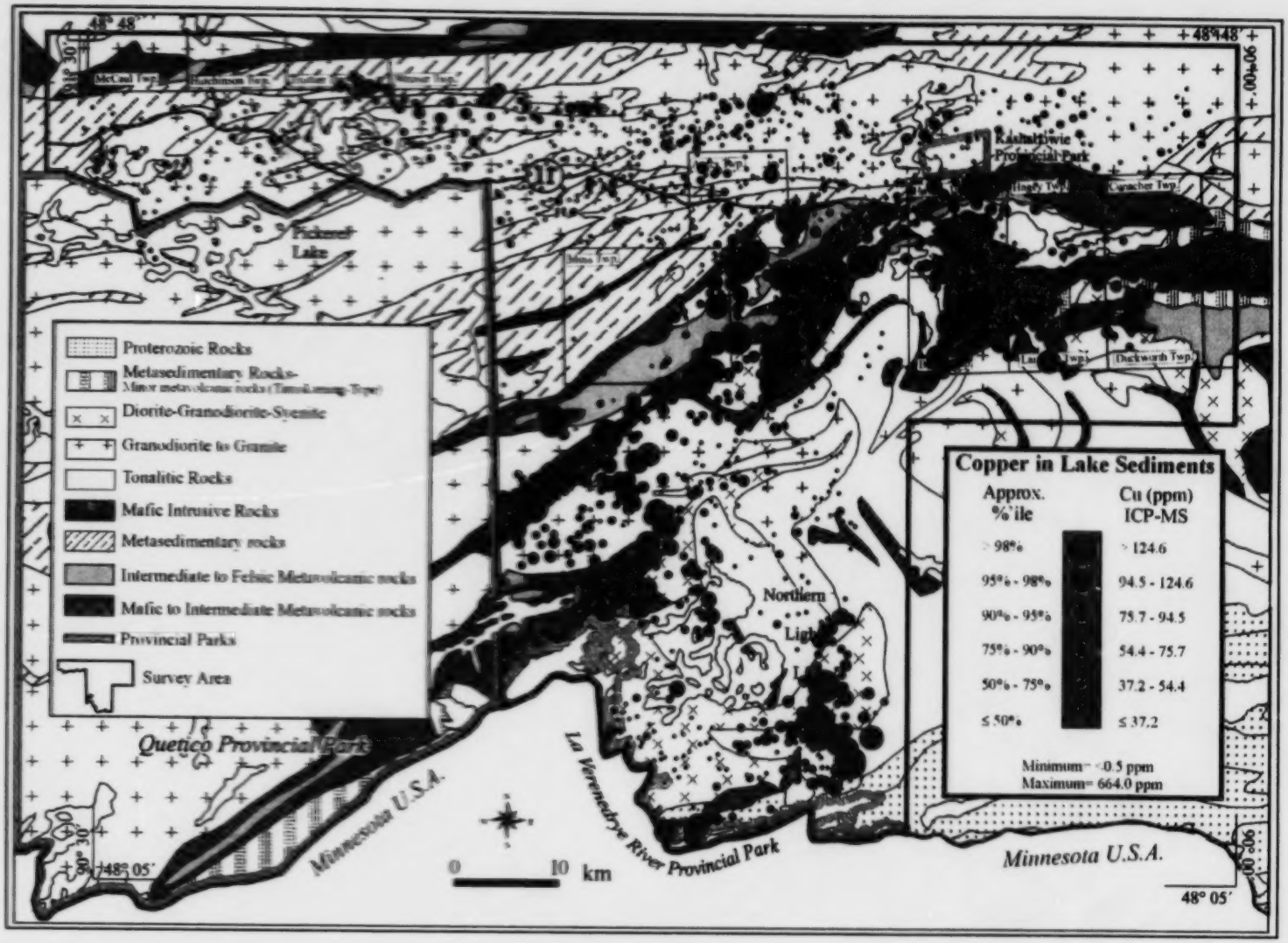
APPENDIX B: **Lake sediment proportional dot maps for As, Cd, Ca, Cr, Cu, Co, Au (INAA), Au (FA), Fe, Pb, LOI, Mg, Mn, Mo, Ni, Pd, Pt, Ag, Sr, Ti, total REEs, W, U, V and Zn.**

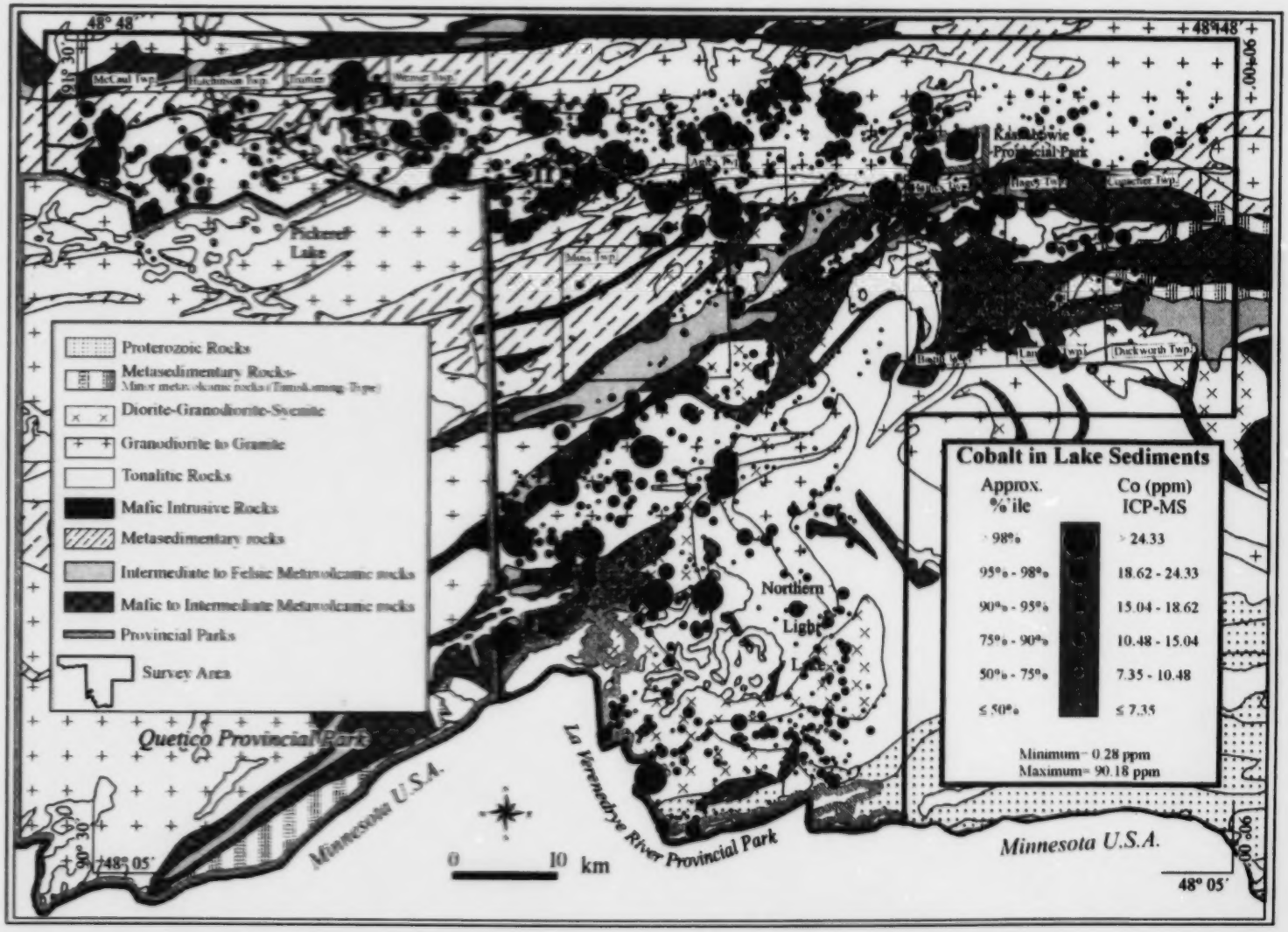

48° 48'
48° 30'
McCaul Twp.
Hutchinson Twp.
Frontier
Weaver Twp.
Pickerel Lake
Moss Twp.
Kinniwabi Provincial Park
Hanlon Twp.
Gerrischer Twp.
Lampson Twp.
Duckworth Twp.
Northern Light Lake
Quetico Provincial Park
Minnesota U.S.A.
La Verendrye River Provincial Park
Minnesota U.S.A.
48° 05'
0 10 km
Proterozoic Rocks
Metasedimentary Rocks-
Minor metavolcanic rocks (Timiskaming-Type)
Diorite-Granodiorite-Syenite
Granodiorite to Granite
Tonalitic Rocks
Mafic Intrusive Rocks
Metasedimentary rocks
Intermediate to Felsic Metavolcanic rocks
Mafic to Intermediate Metavolcanic rocks
Provincial Parks
Survey Area
Arsenic in Lake Sediments
Approx. %'ile
As (ppm) INAA
> 99%
98% - 99%
95% - 98%
75% - 95%
≤ 75%
> 16
9 - 16
6 - 9
3 - 6
≤ 3
Minimum = <1 ppm
Maximum = 80 ppm

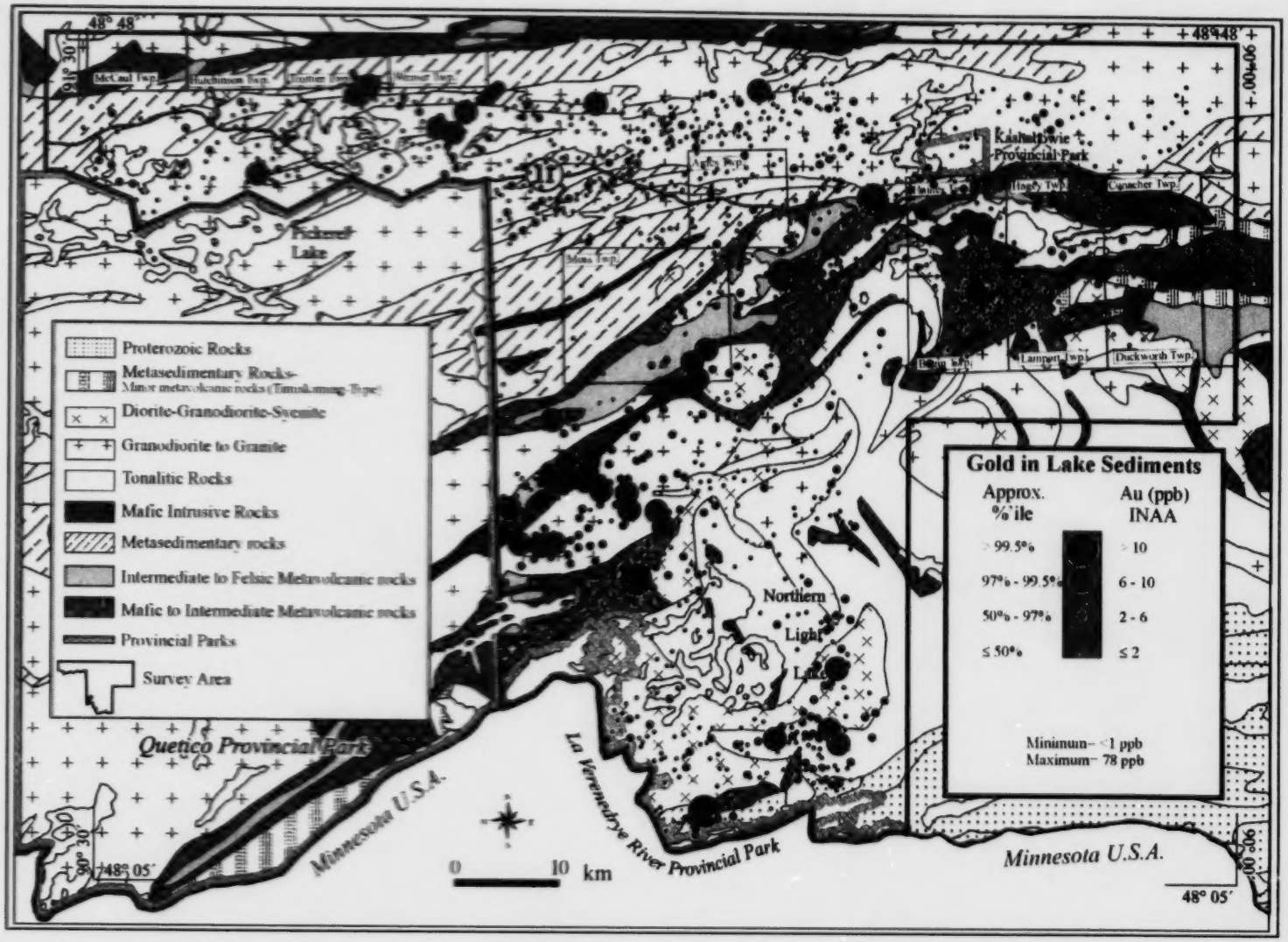

48° 48'
91° 30'
90°00'
McCaul Twp.
Hutchinson Twp.
Troyer
Weaver
Pickerel Lake
Muss Twp.
Cunacher Twp.
Duckworth Twp.
Proterozoic Rocks
Metasedimentary Rocks-
Minor metavolcanic rocks (Timiskaming-Type)
Diorite-Granodiorite-Syenite
Granodiorite to Granite
Tonalitic Rocks
Mafic Intrusive Rocks
Metasedimentary rocks
Intermediate to Felsic Metavolcanic rocks
Mafic to Intermediate Metavolcanic rocks
Provincial Parks
Survey Area
Cadmium in Lake Sediments
Approx. %'ile
Cd (ppm) ICP-MS
≥ 98%
≥ 0.95
95% - 98%
0.84 - 0.95
90% - 95%
0.74 - 0.84
75% - 90%
0.62 - 0.74
50% - 75%
0.52 - 0.62
≤ 50%
≤ 0.52
Minimum= 0.14 ppm
Maximum= 1.57 ppm
Northern Light Lake
Quetico Provincial Park
La Verendrye River Provincial Park
Minnesota U.S.A.
Minnesota U.S.A.
0
10 km
48° 05'
48° 05'

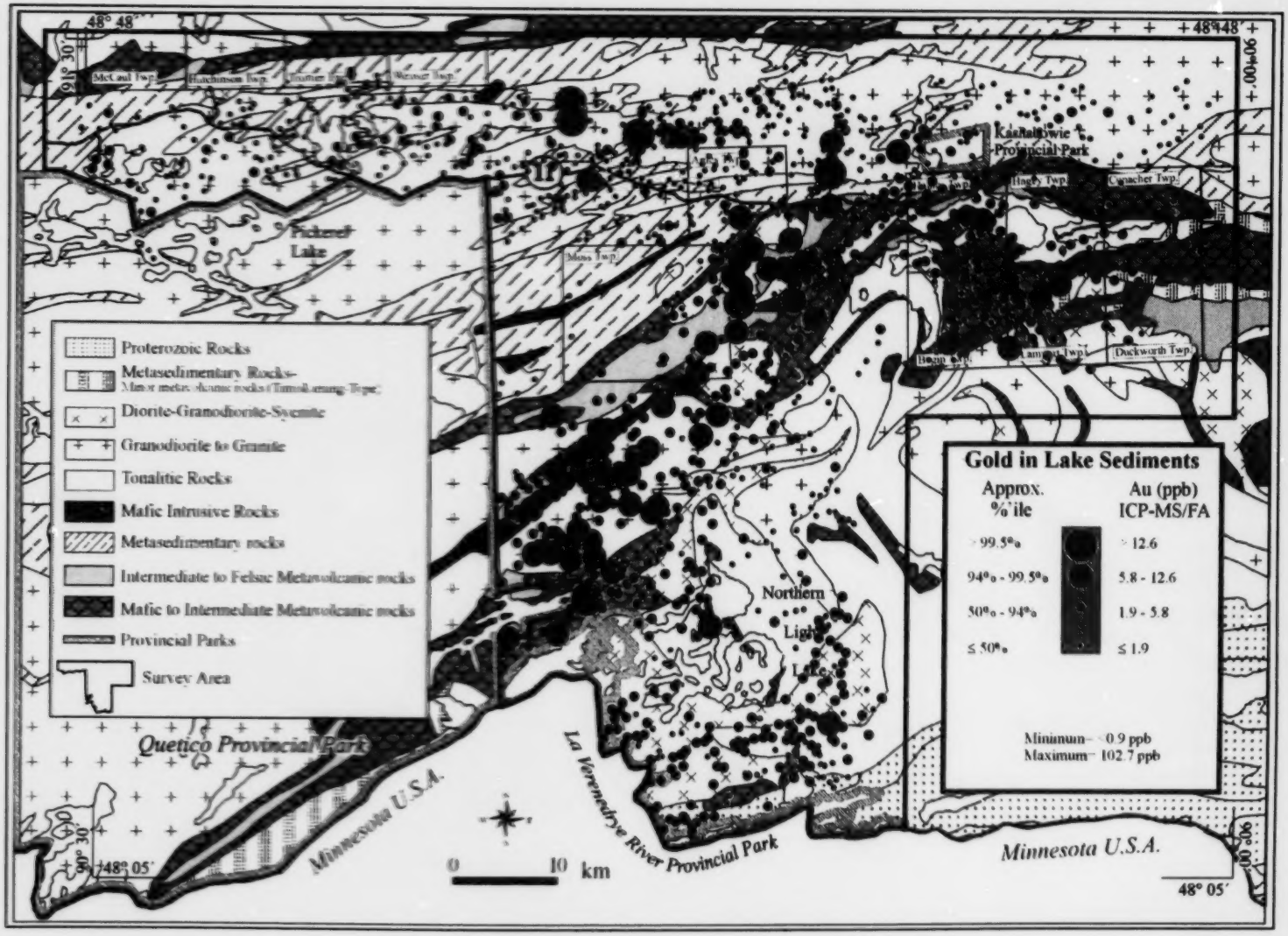

48° 48'
90° 00'
48° 30'
McCaul Twp.
Hutchinson Twp.
Trottier Twp.
Weaver Twp.
Kakabekowie Provincial Park
Pickerel Lake
Moss Twp.
Lamport Twp.
Duckworth Twp.
Proterozoic Rocks
Metasedimentary Rocks-
Minor metavolcanic rocks (Timiskaming-Type)
Diorite-Granodiorite-Syenite
Granodiorite to Granite
Tonalitic Rocks
Mafic Intrusive Rocks
Metasedimentary rocks
Intermediate to Felsic Metavolcanic rocks
Mafic to Intermediate Metavolcanic rocks
Provincial Parks
Survey Area
Calcium in Lake Sediments
Approx. %'ile
Ca (ppm) ICP-OES
> 98%
> 16111
95% - 98%
14266 - 16111
90% - 95%
12207 - 14266
75% - 90%
9141 - 12207
50% - 75%
6695 - 9141
≤ 50%
≤ 6695
Minimum = <20 ppm
Maximum = 23626 ppm
Northern Light Lake
Quetico Provincial Park
Minnesota U.S.A.
La Verendrye River Provincial Park
Minnesota U.S.A.
0
10 km
48° 05'
90° 30'
90° 00'

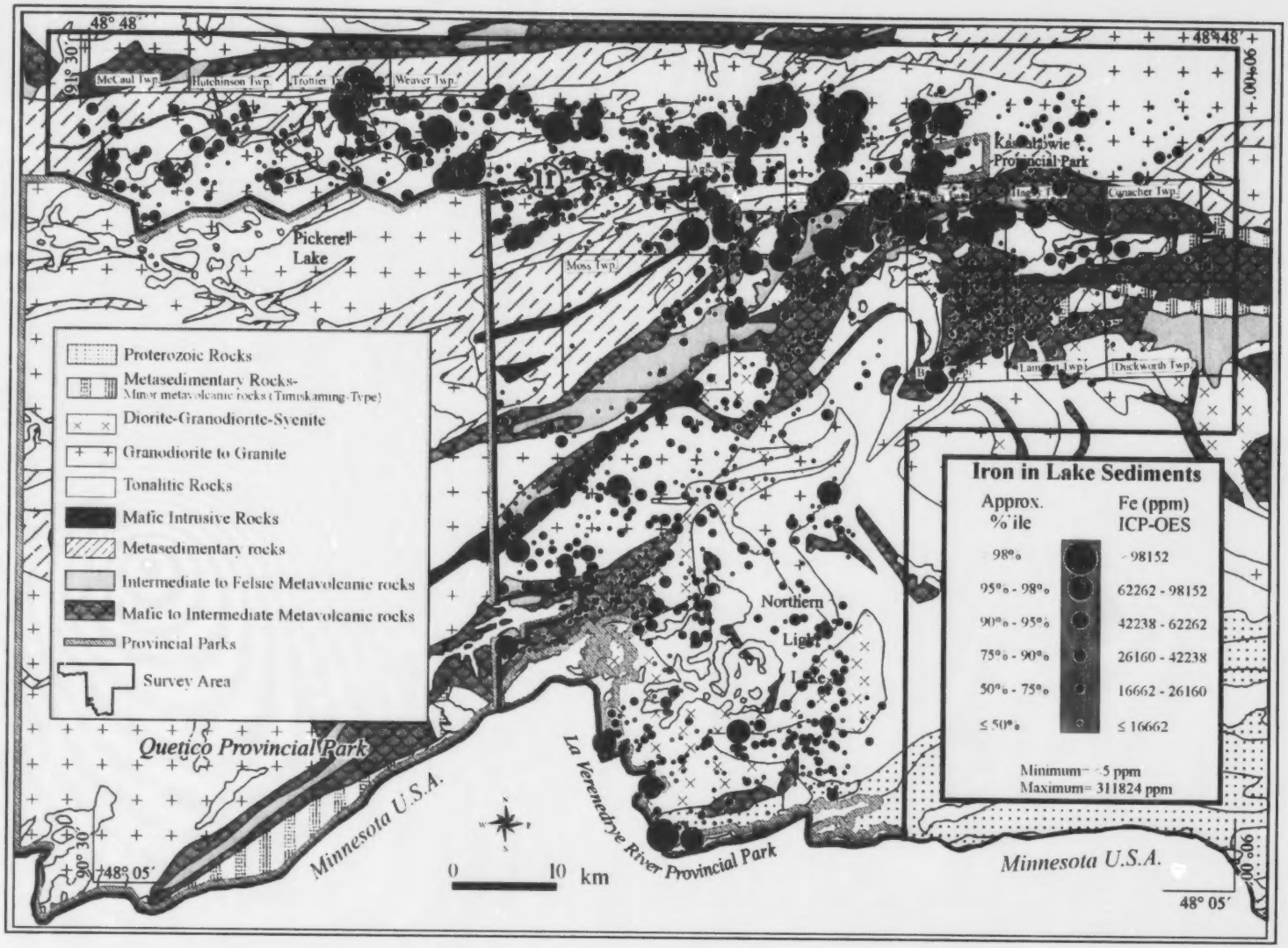

48° 48'
90° 30'
McCaul Twp.
Hutchinson Twp.
Weaver Twp.
Kashabowie Provincial Park
Hagey Twp.
Genacher Twp.
Pickerel Lake
Moss Twp.
Duckworth Twp.
Northern
Quetico Provincial Park
Minnesota U.S.A.
La Vermedrye River Provincial Park
Minnesota U.S.A.
48° 05'
90° 30'
0 10 km
Proterozoic Rocks
Metasedimentary Rocks-
Minor metavolcanic rocks (Timiskaming-Type)
Diorite-Granodiorite-Syenite
Granodiorite to Granite
Tonalitic Rocks
Mafic Intrusive Rocks
Metasedimentary rocks
Intermediate to Felsic Metavolcanic rocks
Mafic to Intermediate Metavolcanic rocks
Provincial Parks
Survey Area
Chromium in Lake Sediments
Approx. %'ile
Cr (ppm) ICP-OES
> 98%
95% - 98%
90% - 95%
75% - 90%
50% - 75%
≤ 50%
> 80
69 - 80
59 - 69
45 - 59
33 - 45
≤ 33
Minimum= 4 ppm
Maximum= 236 ppm

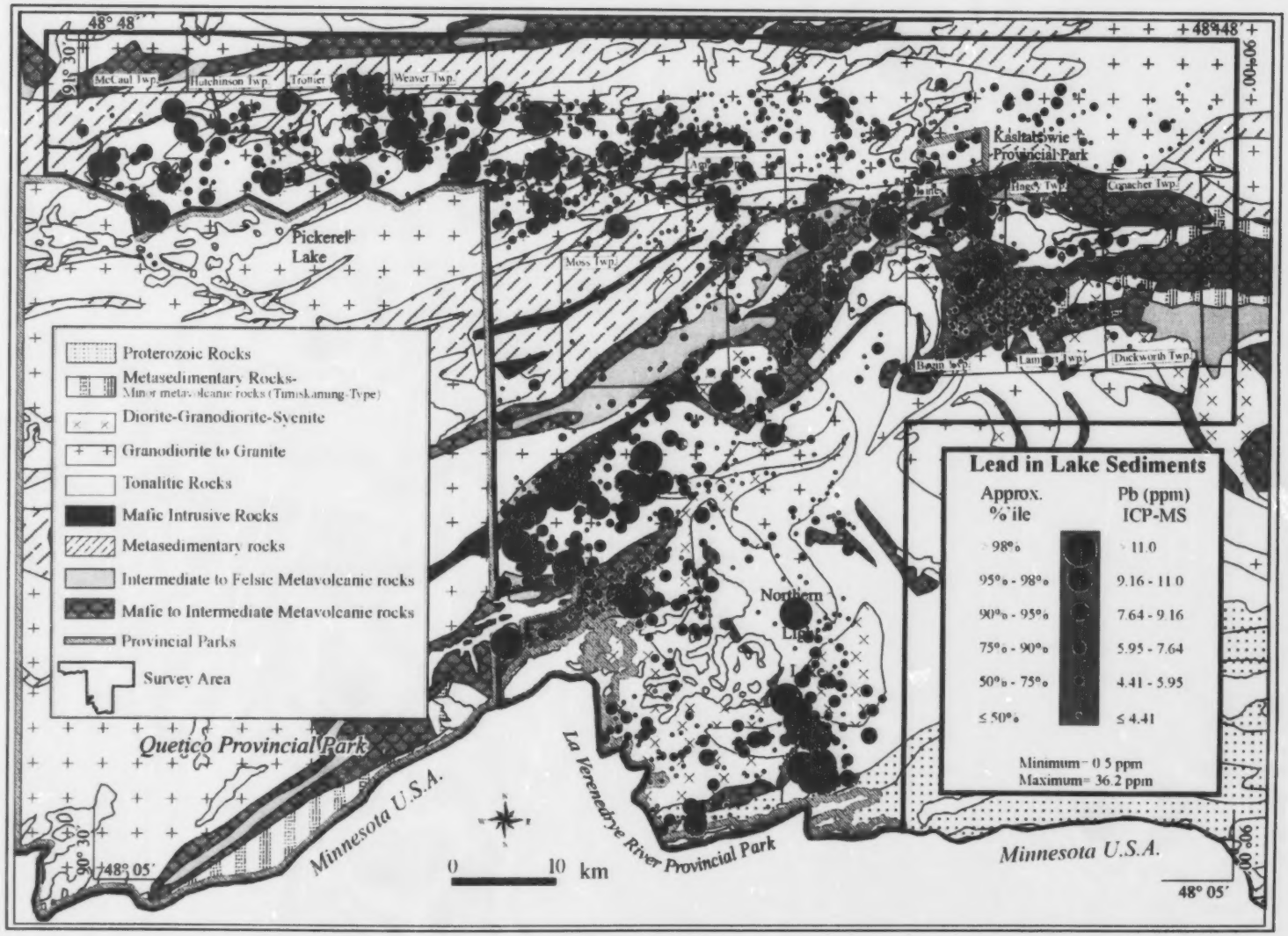

48° 48'
90°00'
Pickerel Lake
Proterozoic Rocks
Metasedimentary Rocks-
Diorite-Granodiorite-Syenite
Granodiorite to Granite
Tonalitic Rocks
Mafic Intrusive Rocks
Metasedimentary rocks
Intermediate to Felsic Metavolcanic rocks
Mafic to Intermediate Metavolcanic rocks
Provincial Parks
Survey Area
Quetico Provincial Park
Minnesota U.S.A.
La Verendrye River Provincial Park
Northern Light
Kashaltiwie Provincial Park
Hagey Twp.
Carscher Twp.
Duckworth Twp.
Copper in Lake Sediments
Approx. %'ile
Cu (ppm) ICP-MS
> 98%
95% - 98%
90% - 95%
75% - 90%
50% - 75%
≤ 50%
> 124.6
94.5 - 124.6
75.7 - 94.5
54.4 - 75.7
37.2 - 54.4
≤ 37.2
Minimum= <0.5 ppm
Maximum= 664.0 ppm
0
10 km
48° 05'

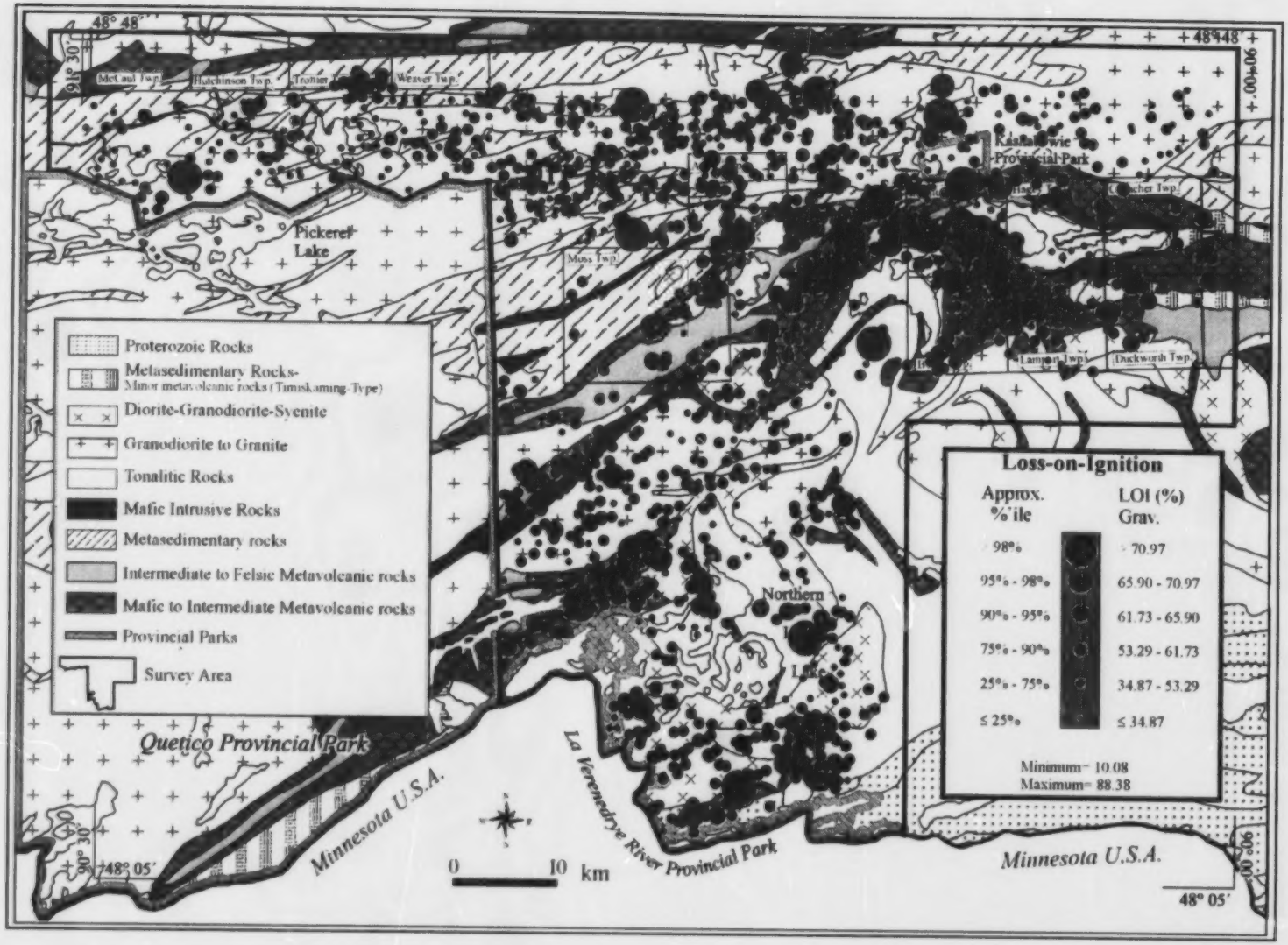

48° 48'
91° 30'
90° 00'
McCaul Twp.
Hutchinson Twp.
Werner Twp.
Pickerel Lake
Kakabekawic Provincial Park
Duckworth Twp.
Proterozoic Rocks
Metasedimentary Rocks-
Diorite-Granodiorite-Syenite
Granodiorite to Granite
Tonalitic Rocks
Mafic Intrusive Rocks
Metasedimentary rocks
Intermediate to Felsic Metavolcanic rocks
Mafic to Intermediate Metavolcanic rocks
Provincial Parks
Survey Area
Cobalt in Lake Sediments
Approx. %'ile
Co (ppm) ICP-MS
> 98%
> 24.33
95% - 98%
18.62 - 24.33
90% - 95%
15.04 - 18.62
75% - 90%
10.48 - 15.04
50% - 75%
7.35 - 10.48
≤ 50%
≤ 7.35
Minimum= 0.28 ppm
Maximum= 90.18 ppm
Northern Light Lake
Quetico Provincial Park
Minnesota U.S.A.
La Verendrye River Provincial Park
Minnesota U.S.A.
0
10 km
48° 05'
48° 05'

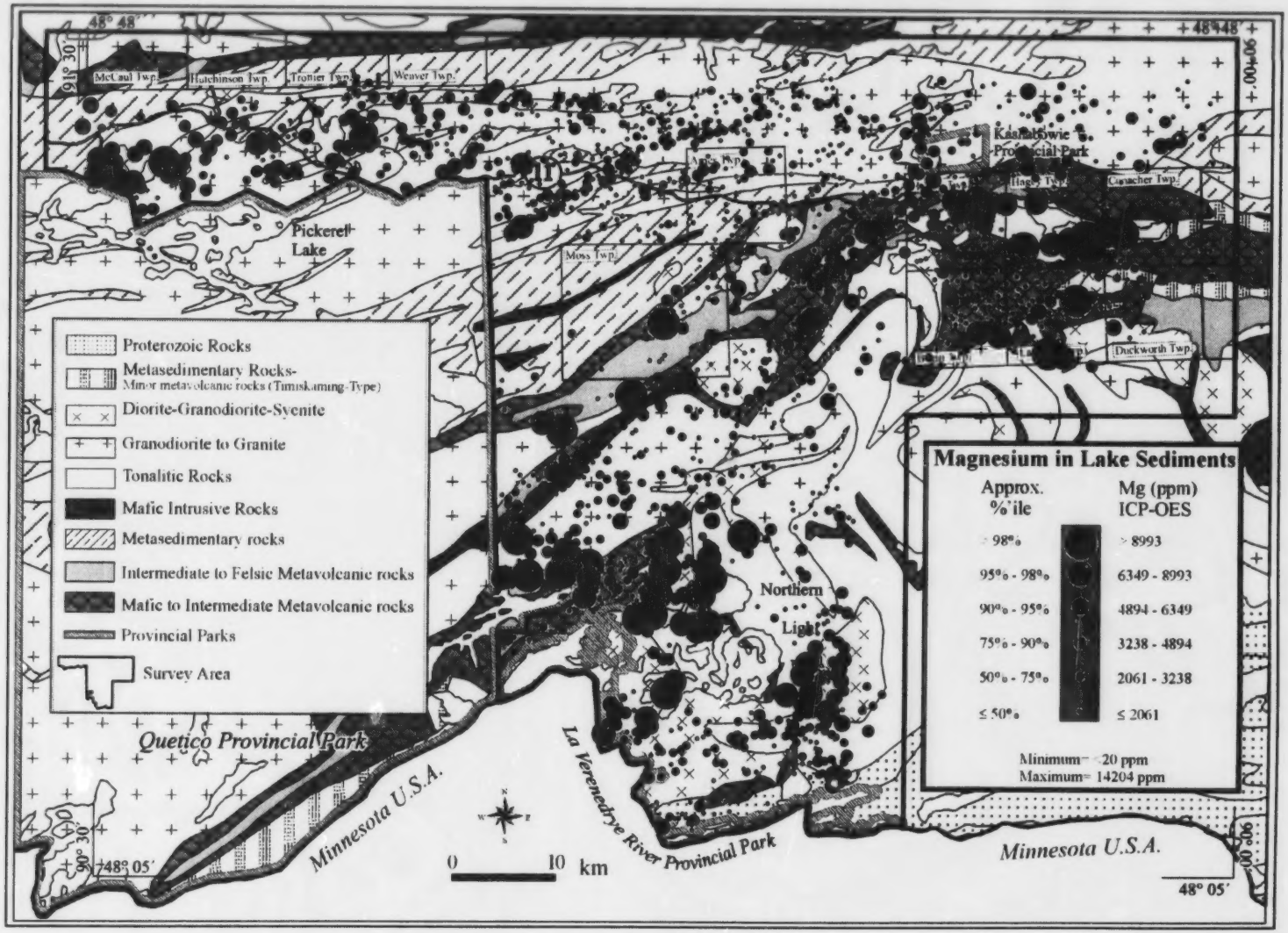

48° 48'
90° 30'
McCaul Twp.
Hutchinson Twp.
Mission Twp.
Wenger Twp.
Pickerel Lake
Mann Twp.
Kakabeka Provincial Park
Hagey Twp.
Canacher Twp.
Lampert Twp.
Duckworth Twp.
Proterozoic Rocks
Metasedimentary Rocks-
Minor metavolcanic rocks (Tamakamang Type)
Diorite-Granodiorite-Syenite
Granodiorite to Granite
Tonalitic Rocks
Mafic Intrusive Rocks
Metasedimentary rocks
Intermediate to Felsic Metavolcanic rocks
Mafic to Intermediate Metavolcanic rocks
Provincial Parks
Survey Area
Gold in Lake Sediments
Approx. %'ile
Au (ppb) INAA
> 99.5%
> 10
97% - 99.5%
6 - 10
50% - 97%
2 - 6
≤ 50%
≤ 2
Minimum- <1 ppb
Maximum- 78 ppb
Northern Light Lake
Quetico Provincial Park
Minnesota U.S.A.
La Verendrye River Provincial Park
Minnesota U.S.A.
0
10 km
48° 05'
90° 30'

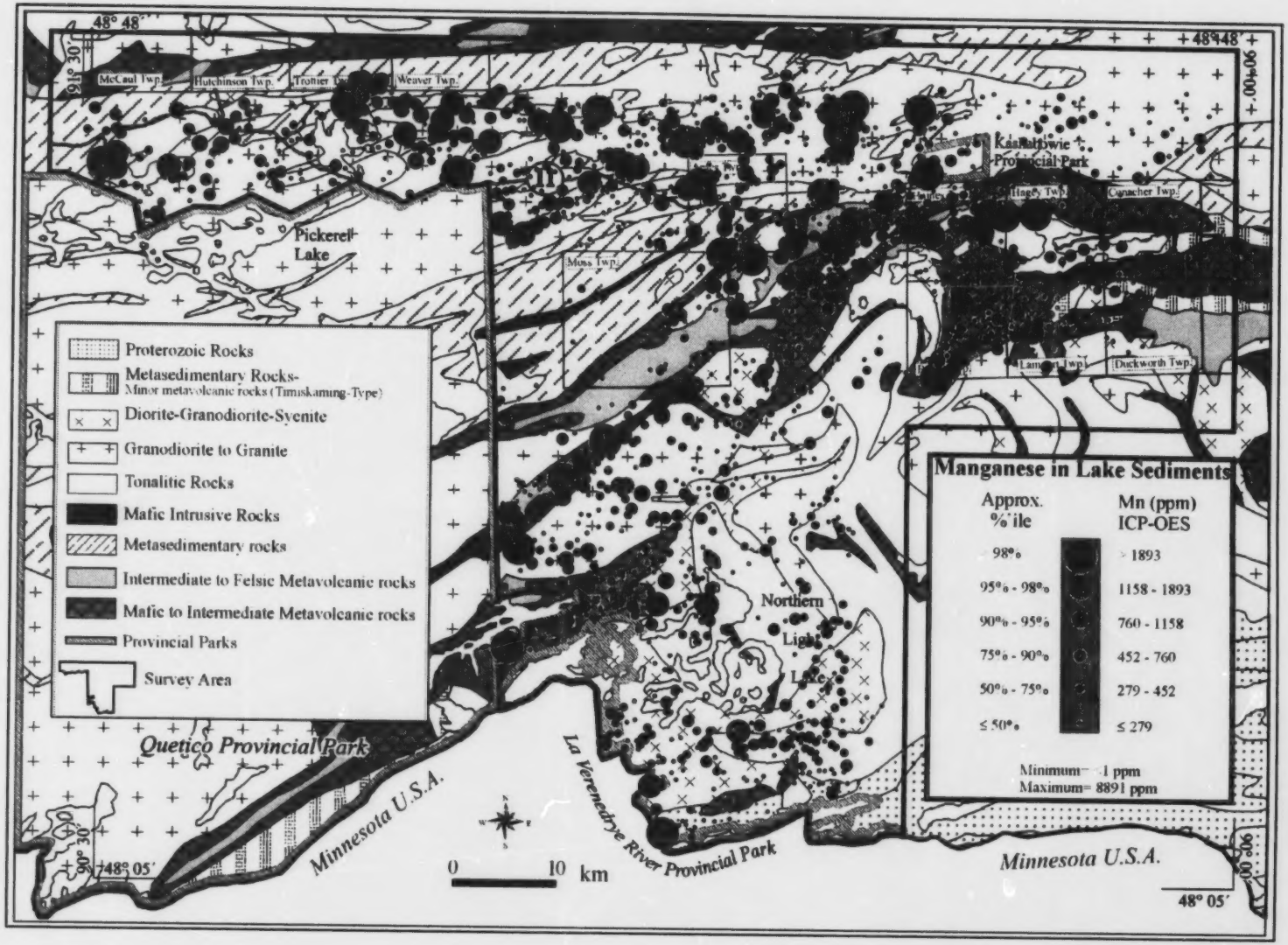

48° 48'
90° 30'
90° 00'
48° 05'
McCaul Twp.
Hutchinson Twp.
Hagey Twp.
Cyr Twp.
Duckworth Twp.
Kawnipi Provincial Park
Pickerel Lake
Northern Light Lake
Quetico Provincial Park
La Verendrye River Provincial Park
Minnesota U.S.A.
Minnesota U.S.A.
0 10 km
Proterozoic Rocks
Metasedimentary Rocks-
Minor metavolcanic rocks (Timiskaming-Type)
Diorite-Granodiorite-Syenite
Granodiorite to Granite
Tonalitic Rocks
Mafic Intrusive Rocks
Metasedimentary rocks
Intermediate to Felsic Metavolcanic rocks
Mafic to Intermediate Metavolcanic rocks
Provincial Parks
Survey Area
Gold in Lake Sediments
Approx. %'ile
Au (ppb) ICP-MS/FA
> 99.5%
> 12.6
94% - 99.5%
5.8 - 12.6
50% - 94%
1.9 - 5.8
≤ 50%
≤ 1.9
Minimum = 0.9 ppb
Maximum = 102.7 ppb

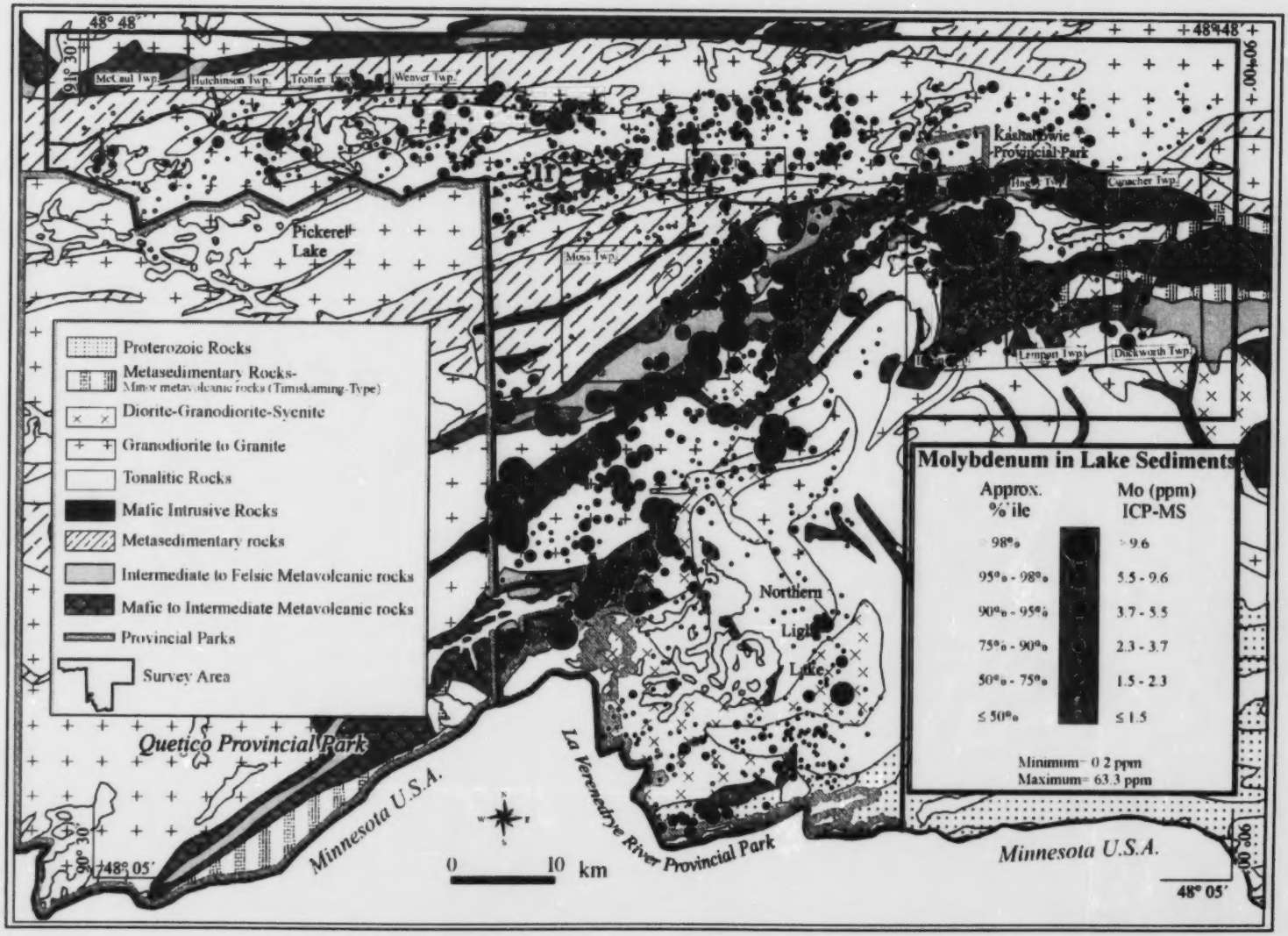

48° 48′
48° 30′
90° 30′
90° 00′
McCaul Twp.
Hutchinson Twp.
Trotter Twp.
Weaver Twp.
Kasabonika Provincial Park
Pickerel Lake
Moss Twp.
Lamont Twp.
Duckworth Twp.
Northern Light Lake
Quetico Provincial Park
Minnesota U.S.A.
La Verendrye River Provincial Park
Minnesota U.S.A.
48° 05′
0 10 km
Proterozoic Rocks
Metasedimentary Rocks-
Minor metavolcanic rocks (Timiskaming-Type)
Diorite-Granodiorite-Syenite
Granodiorite to Granite
Tonalitic Rocks
Mafic Intrusive Rocks
Metasedimentary rocks
Intermediate to Felsic Metavolcanic rocks
Mafic to Intermediate Metavolcanic rocks
Provincial Parks
Survey Area
Iron in Lake Sediments
Approx. %'ile
Fe (ppm) ICP-OES
≥ 98%
≥ 98152
95% - 98%
62262 - 98152
90% - 95%
42238 - 62262
75% - 90%
26160 - 42238
50% - 75%
16662 - 26160
≤ 50%
≤ 16662
Minimum= <5 ppm
Maximum= 311824 ppm

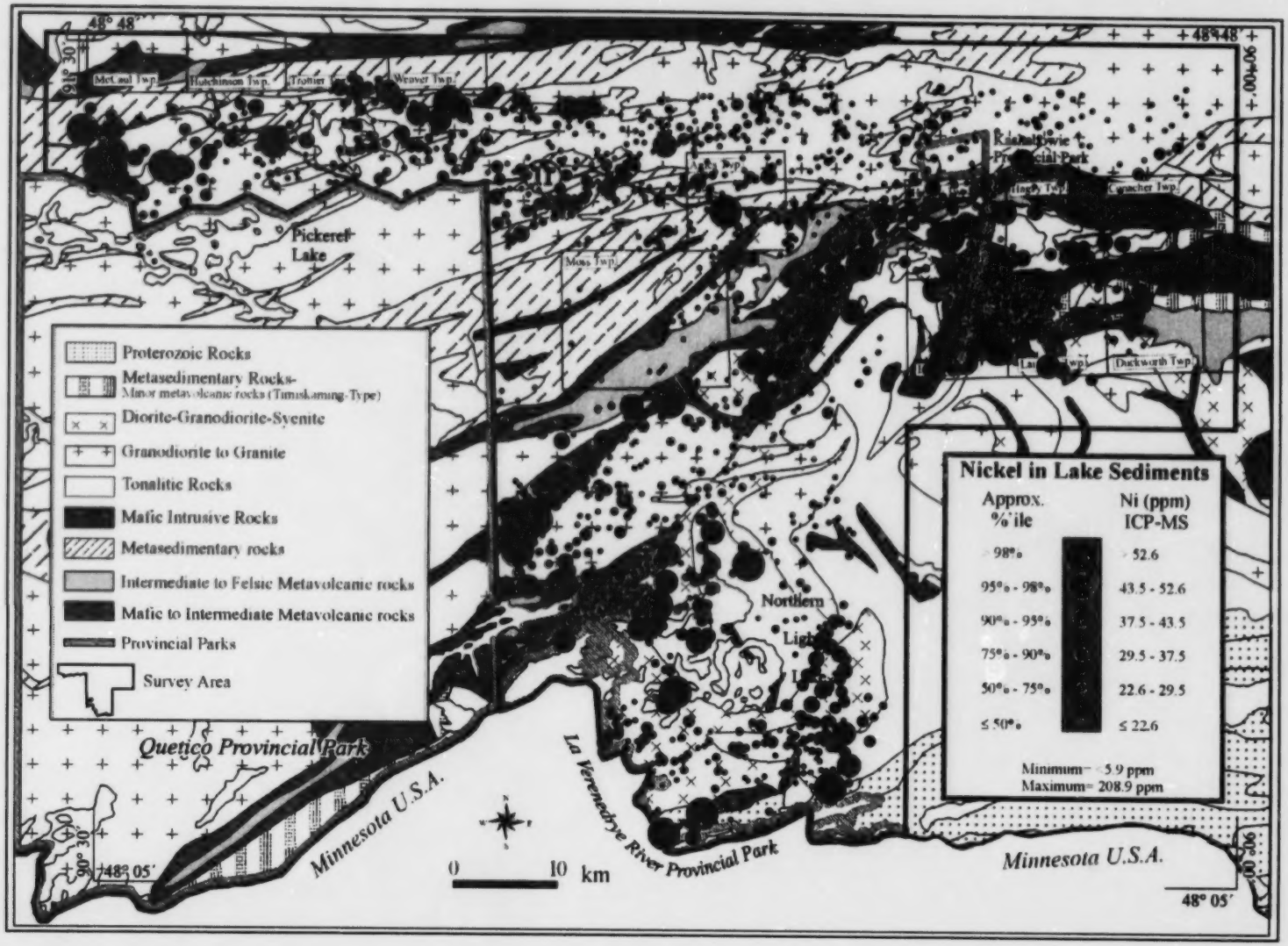

48° 48'
91° 30'
90° 00'
McCaul Twp.
Hutchinson Twp.
Weaver Twp.
Kasitatowie Provincial Park
Hagey Twp.
Cunacher Twp.
Pickerel Lake
Moss Twp.
Lamb Twp.
Duckworth Twp.
Proterozoic Rocks
Metasedimentary Rocks-
Minor metavolcanic rocks (Timiskaming-Type)
Diorite-Granodiorite-Syenite
Granodiorite to Granite
Tonalitic Rocks
Mafic Intrusive Rocks
Metasedimentary rocks
Intermediate to Felsic Metavolcanic rocks
Mafic to Intermediate Metavolcanic rocks
Provincial Parks
Survey Area
Lead in Lake Sediments
Approx. %'ile
Pb (ppm) ICP-MS
> 98%
> 11.0
95% - 98%
9.16 - 11.0
90% - 95%
7.64 - 9.16
75% - 90%
5.95 - 7.64
50% - 75%
4.41 - 5.95
≤ 50%
≤ 4.41
Minimum = 0.5 ppm
Maximum = 36.2 ppm
Northern Light
Quetico Provincial Park
Minnesota U.S.A.
La Verendrye River Provincial Park
Minnesota U.S.A.
0
10 km
48° 05'
48° 05'

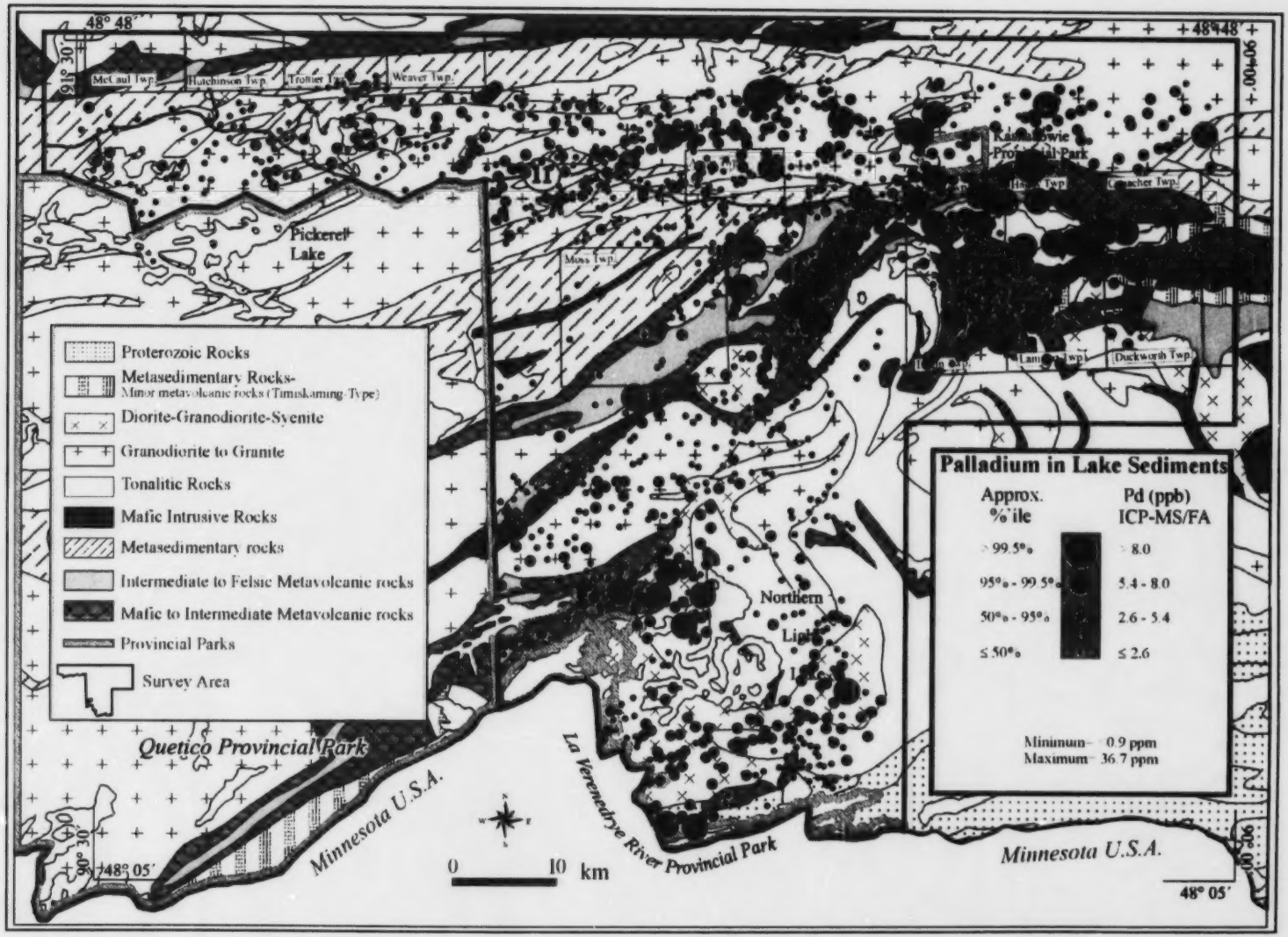

48° 48'
90° 30'
90° 00'
McCaul Twp.
Hutchinson Twp.
Trotter
Weaver Twp.
Kakabekwie Provincial Park
Pickerel Lake
Moss Twp.
Lamon Twp.
Duckworth Twp.
Northern
Quetico Provincial Park
Minnesota U.S.A.
La Verendrye River Provincial Park
Minnesota U.S.A.
48° 05'
30° 30'
0 10 km
Proterozoic Rocks
Metasedimentary Rocks-
Minor metavolcanic rocks (Timiskaming-Type)
Diorite-Granodiorite-Syenite
Granodiorite to Granite
Tonalitic Rocks
Mafic Intrusive Rocks
Metasedimentary rocks
Intermediate to Felsic Metavolcanic rocks
Mafic to Intermediate Metavolcanic rocks
Provincial Parks
Survey Area
Loss-on-Ignition
Approx. %'ile
LOI (%) Grav.
> 98%
> 70.97
95% - 98%
65.90 - 70.97
90% - 95%
61.73 - 65.90
75% - 90%
53.29 - 61.73
25% - 75%
34.87 - 53.29
≤ 25%
≤ 34.87
Minimum= 10.08
Maximum= 88.38

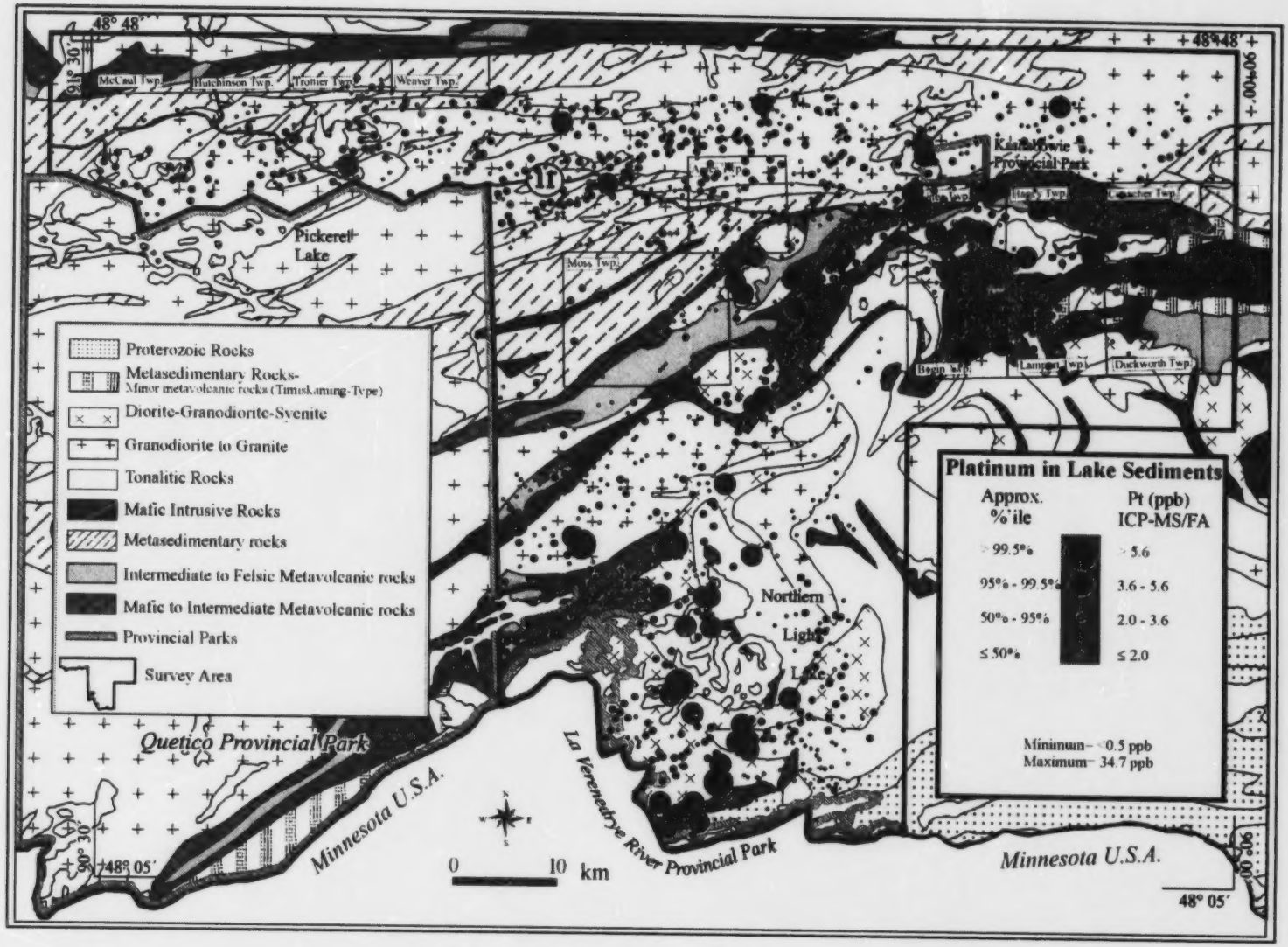

48° 48'
91° 30'
90° 00'
McCaul Twp.
Hutchinson Twp.
Frontier Twp.
Weaver Twp.
Kasabonika Provincial Park
Gunacher Twp.
Duckworth Twp.
Pickerel Lake
Moss Twp.
Proterozoic Rocks
Metasedimentary Rocks-
Minor metavolcanic rocks (Timiskaming-Type)
Diorite-Granodiorite-Syenite
Granodiorite to Granite
Tonalitic Rocks
Mafic Intrusive Rocks
Metasedimentary rocks
Intermediate to Felsic Metavolcanic rocks
Mafic to Intermediate Metavolcanic rocks
Provincial Parks
Survey Area
Magnesium in Lake Sediments
Approx. %'ile
Mg (ppm) ICP-OES
≥ 98%
> 8993
95% - 98%
6349 - 8993
90% - 95%
4894 - 6349
75% - 90%
3238 - 4894
50% - 75%
2061 - 3238
≤ 50%
≤ 2061
Minimum= <20 ppm
Maximum= 14204 ppm
Northern Light
Quetico Provincial Park
La Verendrye River Provincial Park
Minesota U.S.A.
Minnesota U.S.A.
0
10 km
48° 05'
90° 00'

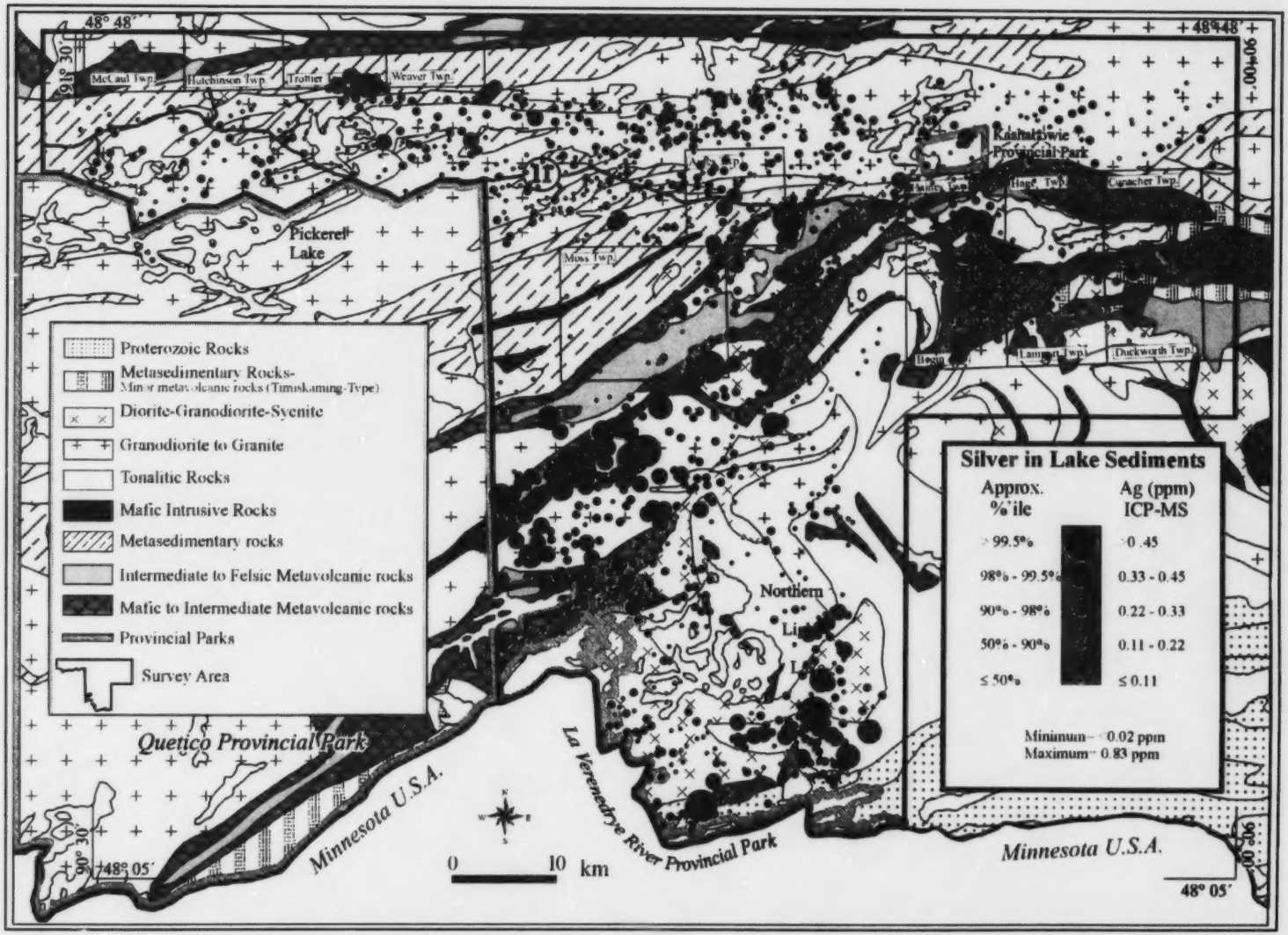

48° 48'
48° 30'
90° 00'
McCaul Twp.
Hutchinson Twp.
Weaver Twp.
Kawaitoose Provincial Park
Hagey Twp.
Canacher Twp.
Pickerel Lake
Moss Twp.
Lamont Twp.
Duckworth Twp.
Proterozoic Rocks
Metasedimentary Rocks-
Minor metavolcanic rocks (Timiskaming-Type)
Diorite-Granodiorite-Syenite
Granodiorite to Granite
Tonalitic Rocks
Mafic Intrusive Rocks
Metasedimentary rocks
Intermediate to Felsic Metavolcanic rocks
Mafic to Intermediate Metavolcanic rocks
Provincial Parks
Survey Area
Manganese in Lake Sediments
Approx. %'ile
Mn (ppm) ICP-OES
≥ 98%
> 1893
95% - 98%
1158 - 1893
90% - 95%
760 - 1158
75% - 90%
452 - 760
50% - 75%
279 - 452
≤ 50%
≤ 279
Minimum= 1 ppm
Maximum= 8891 ppm
Northern Light Lake
Quetico Provincial Park
Minnesota U.S.A.
La Verendrye River Provincial Park
Minnesota U.S.A.
0
10 km
48° 05'
48° 05'
90° 00'

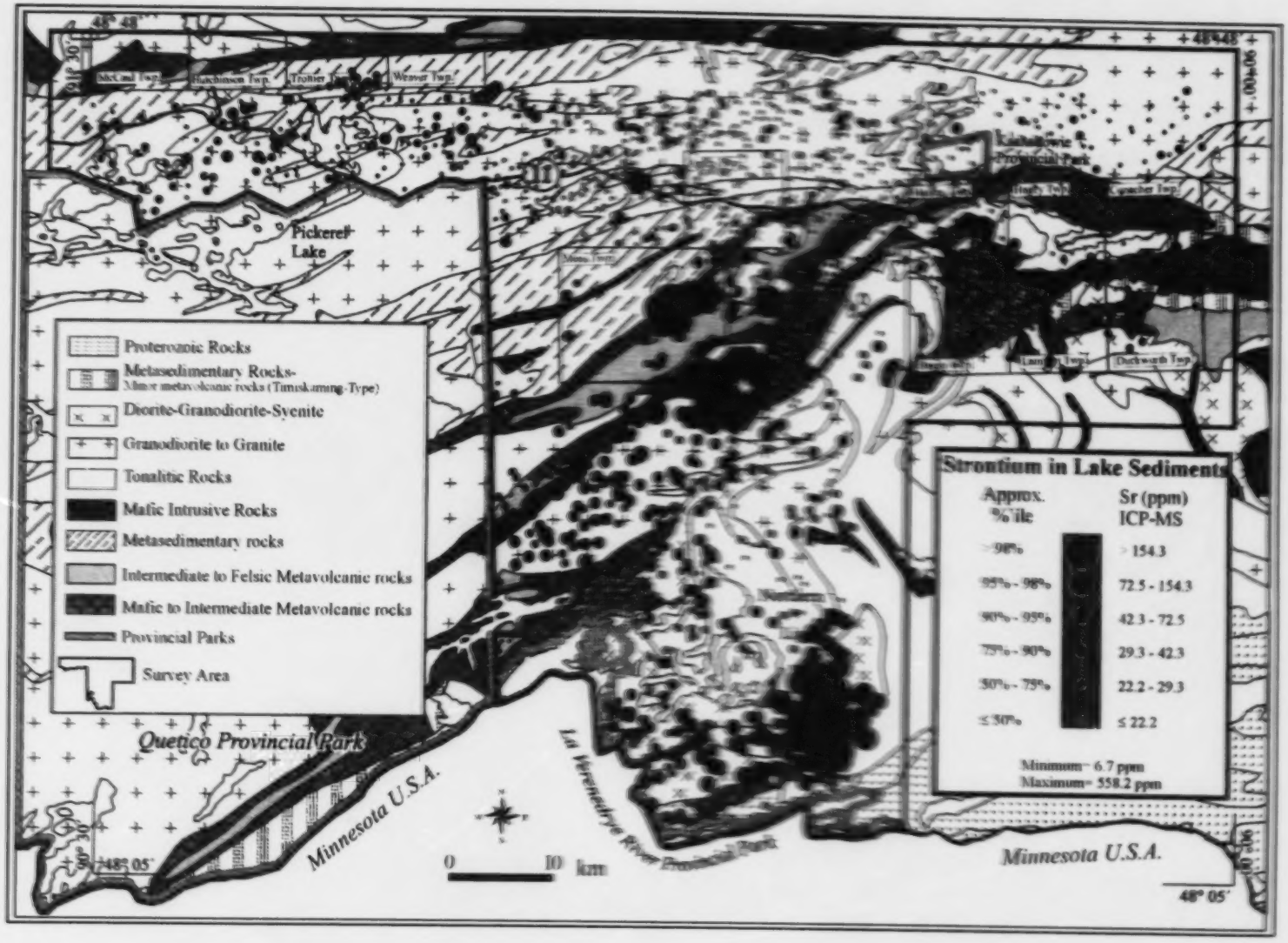

48° 48'
48° 30'
90° 00'
McCaul Twp.
Hutchinson Twp.
Trotter Twp.
Weaver Twp.
Kashabowie Provincial Park
Hagar Twp.
Cunacher Twp.
Pickerel Lake
Moss Twp.
Lempsen Twp.
Duckworth Twp.
Proterozoic Rocks
Metasedimentary Rocks-
Minor metavolcanic rocks (Timiskaming-Type)
Diorite-Granodiorite-Syenite
Granodiorite to Granite
Tonalitic Rocks
Mafic Intrusive Rocks
Metasedimentary rocks
Intermediate to Felsic Metavolcanic rocks
Mafic to Intermediate Metavolcanic rocks
Provincial Parks
Survey Area
Molybdenum in Lake Sediments
Approx. %'ile
Mo (ppm) ICP-MS
≥ 98%
95% - 98%
90% - 95%
75% - 90%
50% - 75%
≤ 50%
≥ 9.6
5.5 - 9.6
3.7 - 5.5
2.3 - 3.7
1.5 - 2.3
≤ 1.5
Minimum= 0.2 ppm
Maximum= 63.3 ppm
Northern Light Lake
Quetico Provincial Park
Minnesota U.S.A.
La Verendrye River Provincial Park
Minnesota U.S.A.
0 10 km
48° 05'

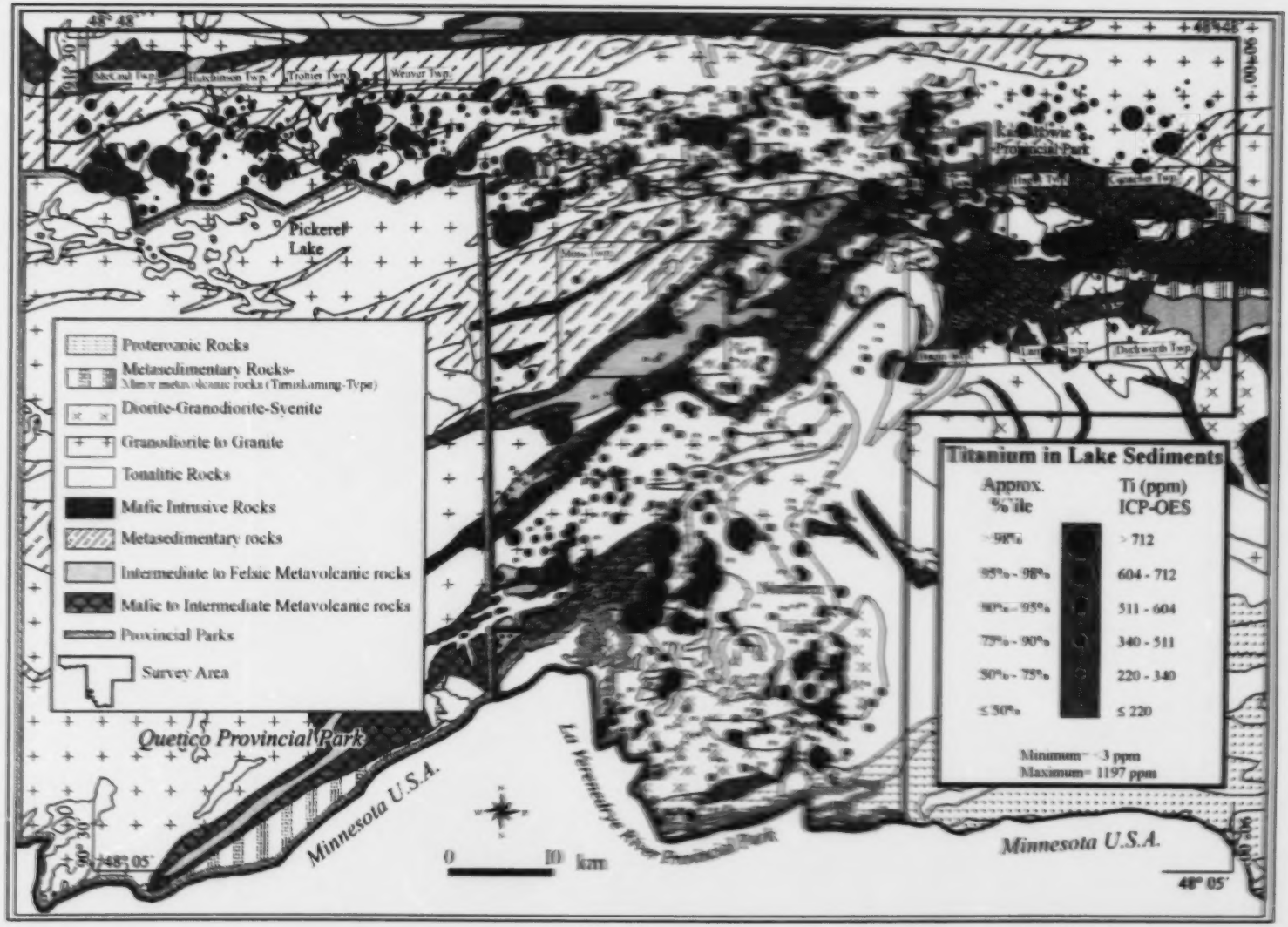

48° 48'
91° 30'
90° 00'
McCaul Twp.
Hutchinson Twp.
Trottier
Weaver Twp.
Pickerel Lake
Moss Twp.
Duckworth Twp.
Proterozoic Rocks
Metasedimentary Rocks-
Minor metavolcanic rocks (Timiskaming-Type)
Diorite-Granodiorite-Syenite
Granodiorite to Granite
Tonalitic Rocks
Mafic Intrusive Rocks
Metasedimentary rocks
Intermediate to Felsic Metavolcanic rocks
Mafic to Intermediate Metavolcanic rocks
Provincial Parks
Survey Area
Quetico Provincial Park
Minnesota U.S.A.
La Verendrye River Provincial Park
Minnesota U.S.A.
0 10 km
48° 05'
Nickel in Lake Sediments
Approx. %'ile
Ni (ppm) ICP-MS
> 98%
> 52.6
95% - 98%
43.5 - 52.6
90% - 95%
37.5 - 43.5
75% - 90%
29.5 - 37.5
50% - 75%
22.6 - 29.5
≤ 50%
≤ 22.6
Minimum = 5.9 ppm
Maximum = 208.9 ppm

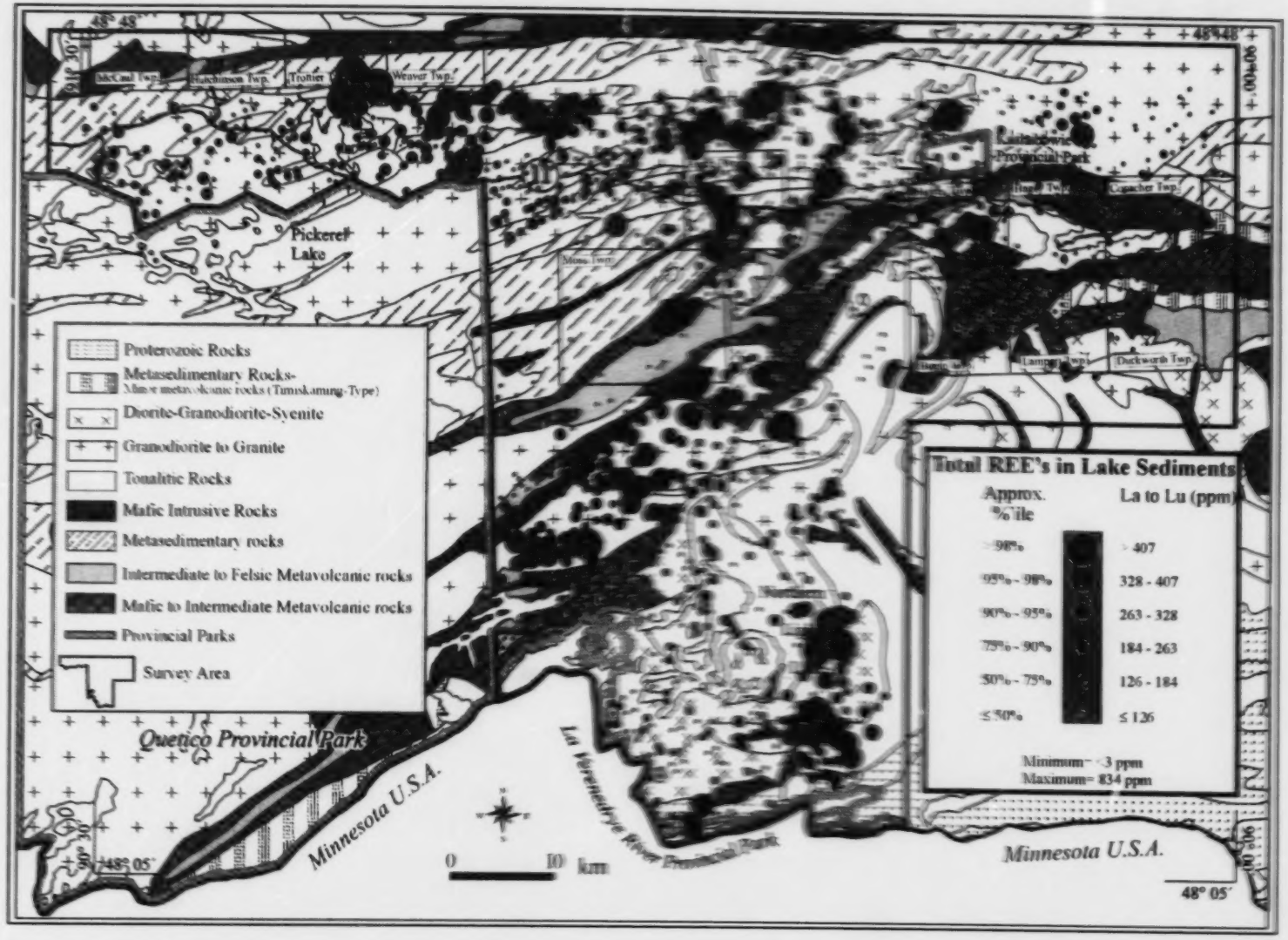

48° 48'
91° 30'
90°00'
McCaul Twp.
Hutchinson Twp.
Weaver Twp.
Pickerel Lake
Mann Twp.
Lamarche Twp.
Duckworth Twp.
Proterozoic Rocks
Metasedimentary Rocks-
Minor metavolcanic rocks (Timiskaming-Type)
Diorite-Granodiorite-Syenite
Granodiorite to Granite
Tonalitic Rocks
Mafic Intrusive Rocks
Metasedimentary rocks
Intermediate to Felsic Metavolcanic rocks
Mafic to Intermediate Metavolcanic rocks
Provincial Parks
Survey Area
Palladium in Lake Sediments
Approx. %'ile
Pd (ppb) ICP-MS/FA
> 99.5%
95% - 99.5%
50% - 95%
≤ 50%
> 8.0
5.4 - 8.0
2.6 - 5.4
≤ 2.6
Minimum= 0.9 ppm
Maximum= 36.7 ppm
Northern Light Lake
Quetico Provincial Park
La Verendrye River Provincial Park
Minnesota U.S.A.
Minnesota U.S.A.
0 10 km
48° 05'
90° 30'

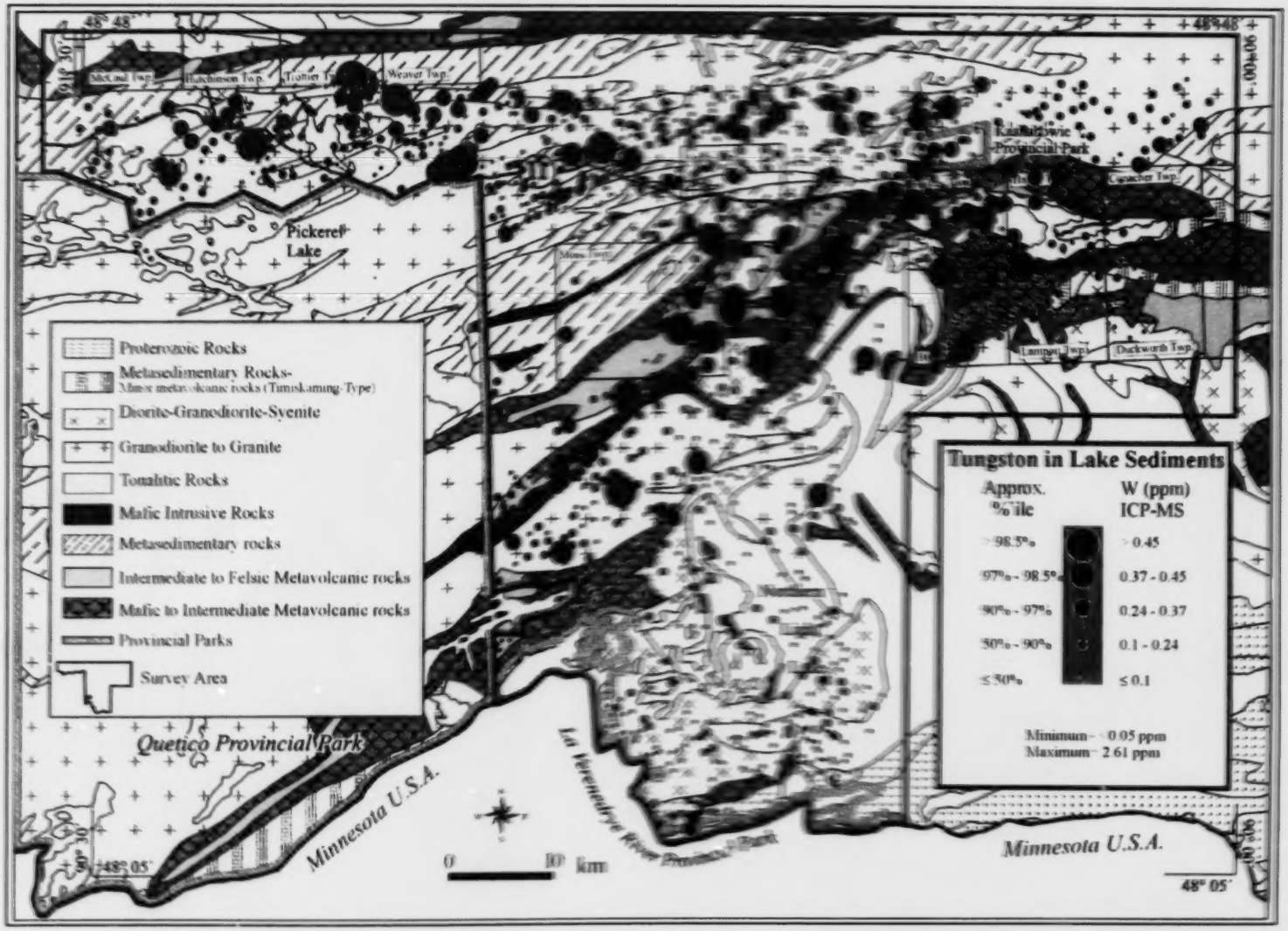

48° 48'
91° 30'
90° 00'
McCaul Twp.
Hutchinson Twp.
Trottier Twp.
Weaver Twp.
Kawawiwie Provincial Park
Happy Twp.
Leacher Twp.
Pickerel Lake
Moss Twp.
Lamport Twp.
Duckworth Twp.
Proterozoic Rocks
Metasedimentary Rocks-
Minor metavolcanic rocks (Timiskaming-Type)
Diorite-Granodiorite-Syenite
Granodiorite to Granite
Tonalitic Rocks
Mafic Intrusive Rocks
Metasedimentary rocks
Intermediate to Felsic Metavolcanic rocks
Mafic to Intermediate Metavolcanic rocks
Provincial Parks
Survey Area
Platinum in Lake Sediments
Approx. %'ile
Pt (ppb) ICP-MS/FA
> 99.5%
> 5.6
95% - 99.5%
3.6 - 5.6
50% - 95%
2.0 - 3.6
≤ 50%
≤ 2.0
Mininum= < 0.5 ppb
Maximum= 34.7 ppb
Northern Light Lake
Quetico Provincial Park
Minnesota U.S.A.
La Verendrye River Provincial Park
Minnesota U.S.A.
0
10 km
48° 05'
48° 05'

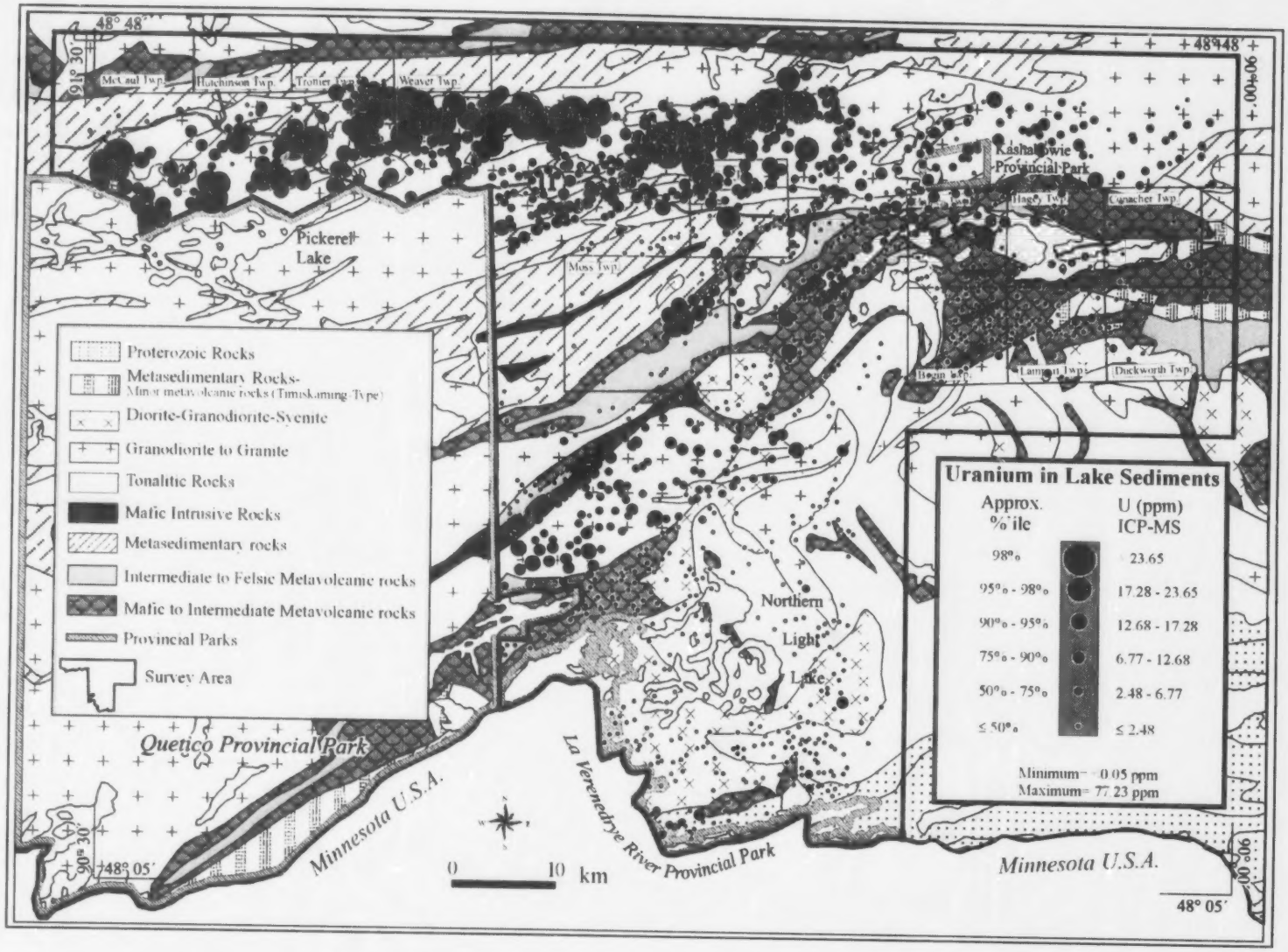

48° 48'
91° 30'
90° 00'
McCaul Twp.
Hutchinson Twp.
Tronier
Weaver Twp.
Kashabowie Provincial Park
Hagar Twp.
Carnacher Twp.
Pickerel Lake
Moss Twp.
Lamport Twp.
Duckworth Twp.
Proterozoic Rocks
Metasedimentary Rocks-
Minor metavolcanic rocks (Timiskaming-Type)
Diorite-Granodiorite-Syenite
Granodiorite to Granite
Tonalitic Rocks
Mafic Intrusive Rocks
Metasedimentary rocks
Intermediate to Felsic Metavolcanic rocks
Mafic to Intermediate Metavolcanic rocks
Provincial Parks
Survey Area
Silver in Lake Sediments
Approx. %'ile
Ag (ppm) ICP-MS
> 99.5%
> 0.45
98% - 99.5%
0.33 - 0.45
90% - 98%
0.22 - 0.33
50% - 90%
0.11 - 0.22
≤ 50%
≤ 0.11
Minimum = 0.02 ppm
Maximum = 0.83 ppm
Quetico Provincial Park
Minnesota U.S.A.
La Verendrye River Provincial Park
Minnesota U.S.A.
0
10 km
48° 05'

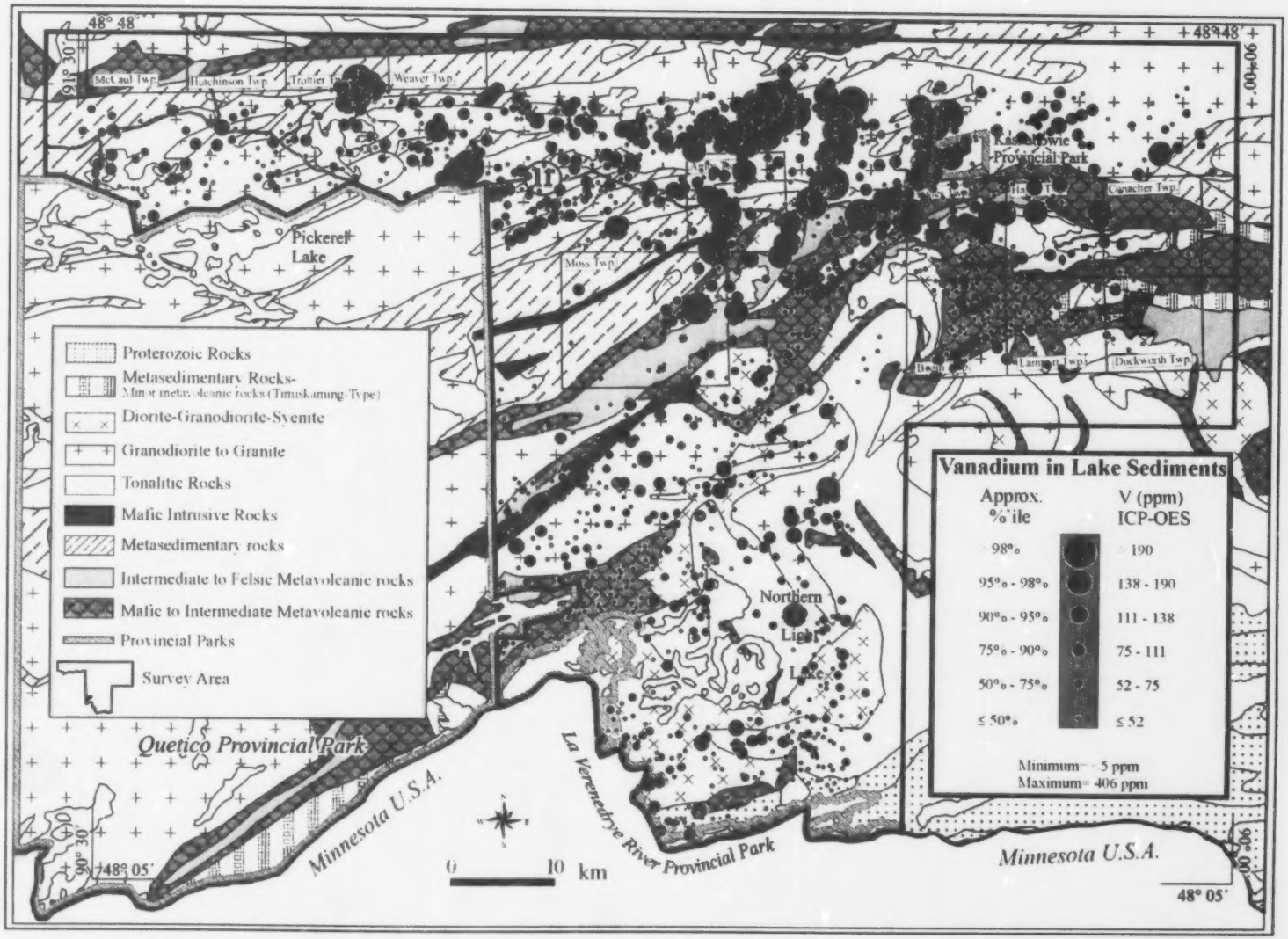

Proterozoic Rocks
Metasedimentary Rocks-
Minor metavolcanic rocks (Timiskaming-Type)
Diorite-Granodiorite-Syenite
Granodiorite to Granite
Tonalitic Rocks
Mafic Intrusive Rocks
Metasedimentary rocks
Intermediate to Felsic Metavolcanic rocks
Mafic to Intermediate Metavolcanic rocks
Provincial Parks
Survey Area
Strontium in Lake Sediments
Approx. %'ile
Sr (ppm) ICP-MS
> 98%
> 154.3
95% - 98%
72.5 - 154.3
90% - 95%
42.3 - 72.5
75% - 90%
29.3 - 42.3
50% - 75%
22.2 - 29.3
≤ 50%
≤ 22.2
Minimum= 6.7 ppm
Maximum= 558.2 ppm
Pickerel Lake
Quetico Provincial Park
Minnesota U.S.A.
La Verendrye River Provincial Park
0
10 km
48° 48'
48° 05'
90° 00'

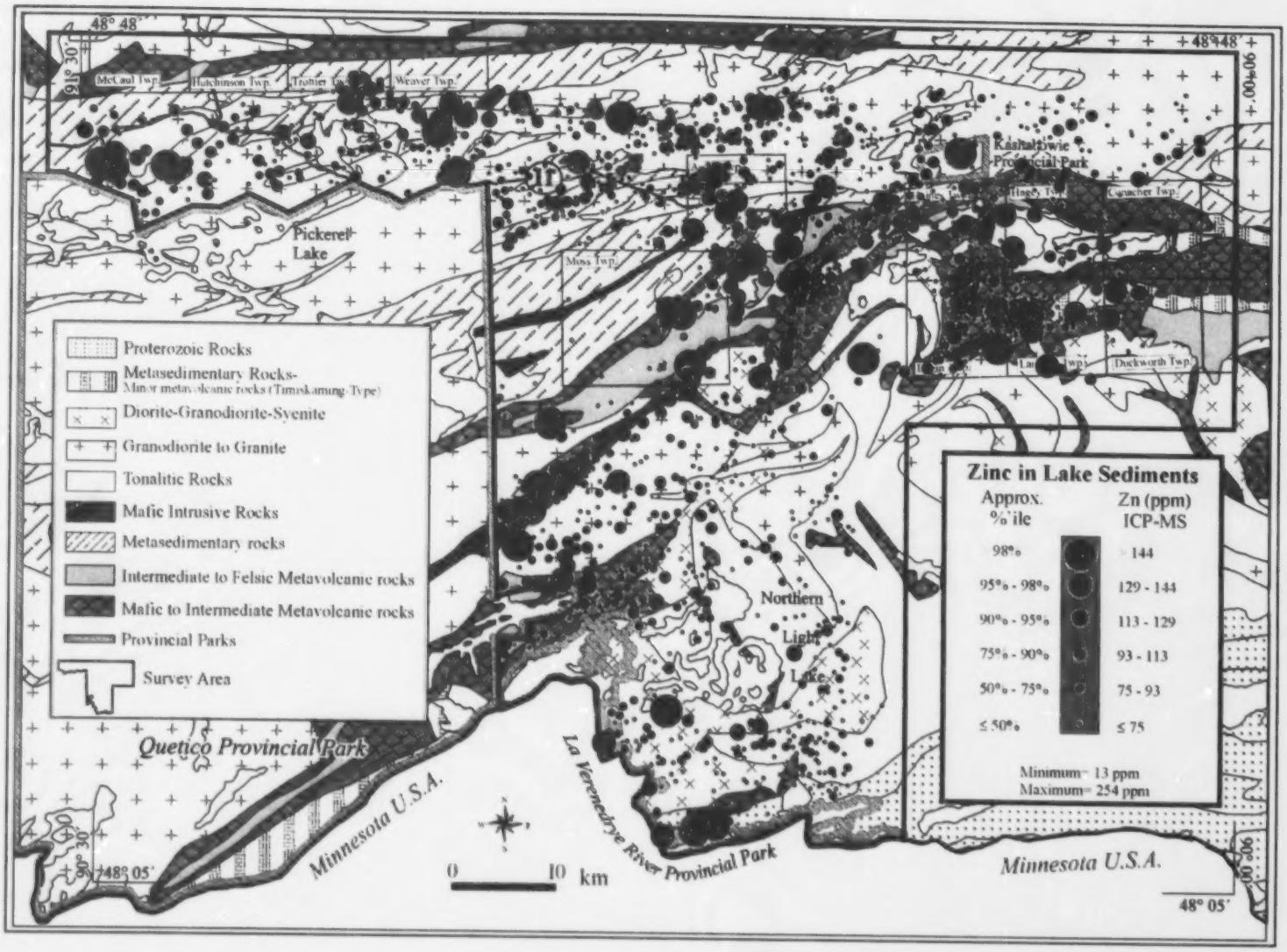

Titanium in Lake Sediments
Approx. %'ile
Ti (ppm) ICP-OES
> 98%
> 712
95% - 98%
604 - 712
90% - 95%
511 - 604
75% - 90%
340 - 511
50% - 75%
220 - 340
≤ 50%
≤ 220
Minimum = 3 ppm
Maximum = 1197 ppm
Proterozoic Rocks
Metasedimentary Rocks-
Minor metavolcanic rocks (Timiskaming-Type)
Diorite-Granodiorite-Syenite
Granodiorite to Granite
Tonalitic Rocks
Mafic Intrusive Rocks
Metasedimentary rocks
Intermediate to Felsic Metavolcanic rocks
Mafic to Intermediate Metavolcanic rocks
Provincial Parks
Survey Area
Pickerel Lake
Quetico Provincial Park
Minnesota U.S.A.
La Verendrye River Provincial Park
Minnesota U.S.A.
0
10 km
48° 48'
48° 05'
90° 00'
90° 30'
McCraney Twp.
Hutchinson Twp.
Frontier Twp.
Weaver Twp.
Kawashay Twp.
Duckworth Twp.


Proterozoic Rocks
Metasedimentary Rocks-
Minor metavolcanic rocks (Timiskaming-Type)
Diorite-Granodiorite-Syenite
Granodiorite to Granite
Tonalitic Rocks
Mafic Intrusive Rocks
Metasedimentary rocks
Intermediate to Felsic Metavolcanic rocks
Mafic to Intermediate Metavolcanic rocks
Provincial Parks
Survey Area
Total REE's in Lake Sediments
Approx. %'ile
La to Lu (ppm)
> 98%
> 407
95% - 98%
328 - 407
90% - 95%
263 - 328
75% - 90%
184 - 263
50% - 75%
126 - 184
≤ 50%
≤ 126
Minimum= <3 ppm
Maximum= 834 ppm
Pickerel Lake
Quetico Provincial Park
Minnesota U.S.A.
La Verendrye Provincial Park
Minnesota U.S.A.
0
10 km
48° 05'
48° 48'
90° 00'
McCaul Twp.
Hutchinson Twp.
Frontier
Weaver Twp.
Kawashewin Provincial Park
Cogasher Twp.
Lamport Twp.
Duckworth Twp.


Pickerel Lake
Quetico Provincial Park
Minnesota U.S.A.
Minnesota U.S.A.
Kawnipi Provincial Park
Proterozoic Rocks
Metasedimentary Rocks-
Minor metavolcanic rocks (Timiskaming-Type)
Diorite-Granodiorite-Syenite
Granodiorite to Granite
Tonalitic Rocks
Mafic Intrusive Rocks
Metasedimentary rocks
Intermediate to Felsic Metavolcanic rocks
Mafic to Intermediate Metavolcanic rocks
Provincial Parks
Survey Area
Tungston in Lake Sediments
Approx. %'ile
W (ppm) ICP-MS
> 98.5%
> 0.45
97% - 98.5%
0.37 - 0.45
90% - 97%
0.24 - 0.37
50% - 90%
0.1 - 0.24
≤ 50%
≤ 0.1
Minimum = 0.05 ppm
Maximum = 2.61 ppm
0
10 km
48° 05'


48° 48'
91° 30'
90°00'
McCaul Twp.
Hutchinson Twp.
Weaver Twp.
Pickerel Lake
Moss Twp.
Kashabowie Provincial Park
Hagey Twp.
Conacher Twp.
Lamport Twp.
Duckworth Twp.
Proterozoic Rocks
Metasedimentary Rocks-
Minor metavolcanic rocks (Timiskaming-Type)
Diorite-Granodiorite-Syenite
Granodiorite to Granite
Tonalitic Rocks
Mafic Intrusive Rocks
Metasedimentary rocks
Intermediate to Felsic Metavolcanic rocks
Mafic to Intermediate Metavolcanic rocks
Provincial Parks
Survey Area
Uranium in Lake Sediments
Approx. %'ile
U (ppm) ICP-MS
98%
≥ 23.65
95% - 98%
17.28 - 23.65
90% - 95%
12.68 - 17.28
75% - 90%
6.77 - 12.68
50% - 75%
2.48 - 6.77
≤ 50%
≤ 2.48
Minimum= 0.05 ppm
Maximum= 77.23 ppm
Northern Light Lake
Quetico Provincial Park
Minnesota U.S.A.
La Verendrye River Provincial Park
Minnesota U.S.A.
0
10 km
48° 05'
90° 30'
90°00'


48° 48'
91° 30'
90° 00'
McCaul Twp.
Hutchinson Twp.
Trottier Twp.
Weaver Twp.
Kasabonika Provincial Park
Cavacher Twp.
Pickerel Lake
Moss Twp.
Lamport Twp.
Duckworth Twp.
Proterozoic Rocks
Metasedimentary Rocks-
Minor metavolcanic rocks (Timiskaming-Type)
Diorite-Granodiorite-Syenite
Granodiorite to Granite
Tonalitic Rocks
Mafic Intrusive Rocks
Metasedimentary rocks
Intermediate to Felsic Metavolcanic rocks
Mafic to Intermediate Metavolcanic rocks
Provincial Parks
Survey Area
Vanadium in Lake Sediments
Approx. %'ile
V (ppm) ICP-OES
> 98%
> 190
95% - 98%
138 - 190
90% - 95%
111 - 138
75% - 90%
75 - 111
50% - 75%
52 - 75
≤ 50%
≤ 52
Minimum = 5 ppm
Maximum = 406 ppm
Northern Light Lake
Quetico Provincial Park
Minnesota U.S.A.
La Verendrye River Provincial Park
Minnesota U.S.A.
0
10 km
48° 05'
90° 00'


48° 48'
91° 30'
90° 00'
McCaul Twp.
Hutchinson Twp.
Weaver Twp.
Kashaltowie Provincial Park
Haggis Twp.
Cavacher Twp.
Pickerel Lake
Moss Twp.
Duckworth Twp.
Proterozoic Rocks
Metasedimentary Rocks-
Minor metavolcanic rocks (Timiskaming-Type)
Diorite-Granodiorite-Syenite
Granodiorite to Granite
Tonalitic Rocks
Mafic Intrusive Rocks
Metasedimentary rocks
Intermediate to Felsic Metavolcanic rocks
Mafic to Intermediate Metavolcanic rocks
Provincial Parks
Survey Area
Zinc in Lake Sediments
Approx. %'ile
Zn (ppm) ICP-MS
98%
95% - 98%
90% - 95%
75% - 90%
50% - 75%
≤ 50%
144
129 - 144
113 - 129
93 - 113
75 - 93
≤ 75
Minimum= 13 ppm
Maximum= 254 ppm
Northern Light Lake
Quetico Provincial Park
Minnesota U.S.A.
La Verendrye River Provincial Park
Minnesota U.S.A.
0
10 km
48° 05'

APPENDIX C: **Selected lake sediment analyses for Ag, As, Au (INAA), Au (FA), Cu, Co, Cr, Ni, Pb, Pd, Pt, Zn and LOI.**

Site	Sample #	Easting	Northing	Ag	As	Au	Au	Cu	Co	Cr	Ni	Pb	Pd	Pt	Zn	LOI
		NAD83	Method------->	ICP-MS	INAA	INAA	FA	ICP-MS	ICP-MS	ICP-OES	ICP-MS	ICP-MS	FA	FA	ICP-MS	Grav.
		UTM	Units------->	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	%
		Zone 15	Detection limit-->	0.02	1	1	0.9	0.5	0.05	4	0.5	0.05	0.9	0.5	1	0.01
1	99-RDD-0001	687999.77	5379152.33	0.07	3	6	3.8	28.2	5.47	33	21.9	4.15	1.5	1.2	74	40.44
2	99-RDD-0002	682969.51	5371937.91	0.10	2	3	1.9	43.1	12.34	65	30.0	4.00	1.8	1.5	96	27.79
3	99-RDD-0003	681508.00	5362990.00	0.08	2	2	1.4	34.3	9.60	33	23.1	2.93	1.2	0.9	74	54.09
4	99-RDD-0004	681344.43	5361779.49	0.14	2	<1	1.0	32.6	10.34	44	19.1	3.98	0.9	0.7	65	42.70
5	99-RDD-0005	685049.00	5358090.00	0.07	3	<1	n/a	33.5	8.69	37	26.3	6.75	n/a	n/a	87	42.65
6	99-RDD-0006	684824.00	5347920.00	0.23	1	2	2.7	53.1	10.73	117	35.5	4.28	2.3	1.3	81	44.09
7	99-RDD-0007	683166.00	5341710.00	0.15	3	1	3.1	58.4	14.05	78	41.9	4.81	3.2	2.2	92	24.97
8	99-RDD-0008	682377.00	5340230.00	0.27	2	1	n/a	125.2	6.56	69	33.4	3.89	n/a	n/a	58	68.50
9	99-RDD-0009	682876.00	5339900.00	0.25	2	2	n/a	108.4	5.83	60	30.5	3.79	n/a	n/a	53	65.27
10	99-RDD-0011	682892.00	5336890.00	0.12	2	<1	1.6	32.2	8.09	41	21.8	4.08	1.0	0.8	72	49.89
11	99-RDD-0012	683729.00	5334690.00	0.14	2	1	1.8	66.7	10.65	105	40.1	3.81	2.3	2.5	90	38.71
17	99-RDD-0018	681481.38	5335344.13	0.19	1	<1	2.5	69.5	3.30	17	14.0	9.71	<0.9	0.8	28	76.12
18	99-RDD-0019	682380.18	5335630.60	0.16	2	4	1.2	58.5	7.63	49	26.9	4.89	<0.9	0.7	70	48.01
19	99-RDD-0021	683325.78	5335240.18	0.20	1	5	1.8	89.4	12.15	236	208.9	2.88	4.0	1.8	48	41.53
20	99-RDD-0022	684006.27	5335400.45	0.14	1	3	1.1	42.3	6.75	97	33.4	7.05	1.3	0.9	41	45.88
21	99-RDD-0023	685160.19	5335706.48	0.11	1	2	1.8	36.2	3.21	76	25.6	7.79	1.4	0.9	36	31.13
22	99-RDD-0024	682681.60	5335735.98	0.14	2	4	1.0	39.9	4.91	43	18.8	11.15	1.0	1.3	51	57.66
23	99-RDD-0025	682360.35	5336922.34	0.15	2	3	1.6	27.2	5.18	76	21.8	9.79	2.4	1.7	27	23.37
24	99-RDD-0026	682497.74	5337012.06	0.14	2	<1	1.6	29.5	4.91	42	18.5	18.70	1.0	0.8	40	57.97
25	99-RDD-0027	683552.00	5337090.00	0.08	2	1	1.5	29.6	7.02	41	19.7	3.46	1.2	0.8	86	64.51
26	99-RDD-0028	683857.75	5336712.70	0.17	2	2	n/a	64.4	1.85	15	10.9	2.89	n/a	n/a	72	58.62
27	99-RDD-0029	684792.00	5336860.00	0.23	1	2	n/a	63.3	6.00	78	29.4	3.42	n/a	n/a	50	48.48
28	99-RDD-0031	685178.00	5337440.00	0.35	3	5	3.9	141.8	7.24	182	51.7	6.23	3.6	2.0	81	44.95
29	99-RDD-0032	682313.00	5337840.00	0.15	2	<1	1.7	29.9	7.56	59	21.7	4.87	1.9	1.3	70	49.60
30	99-RDD-0033	684810.54	5338770.54	0.21	2	1	1.9	103.9	6.31	68	32.9	3.25	1.6	0.9	49	48.77
32	99-RDD-0035	684582.00	5341950.00	0.14	1	2	1.7	52.2	4.28	46	21.9	3.06	1.7	1.1	29	49.57
33	99-RDD-0036	685020.58	5351269.15	0.20	1	3	2.6	61.6	6.10	83	29.2	4.22	3.1	1.7	66	36.26
34	99-RDD-0037	685516.00	5360270.00	0.11	1	3	1.5	22.3	3.27	24	13.4	3.15	1.2	0.9	39	41.13
35	99-RDD-0038	685022.71	5360636.55	0.11	1	2	1.7	32.3	6.74	32	22.4	2.46	1.7	0.8	65	45.03
36	99-RDD-0039	684442.82	5368568.04	0.10	2	<1	1.7	28.5	4.21	31	18.9	3.65	1.4	1.0	65	55.75
37	99-RDD-0041	683325.08	5373226.14	0.04	2	<1	1.2	18.0	3.82	33	16.2	3.40	1.4	1.2	60	30.51
38	99-RDD-0042	686461.66	5377029.10	0.05	2	<1	n/a	10.2	0.81	5	5.9	3.37	n/a	n/a	148	84.73
39	99-RDD-0043	688357.00	5387260.00	0.08	2	3	n/a	40.5	3.51	11	10.4	2.50	n/a	n/a	64	69.16
40	99-RDD-0044	689307.00	5388690.00	0.03	2	<1	n/a	16.0	4.93	6	6.8	1.17	n/a	n/a	66	88.38
41	99-RDD-0045	686189.04	5386139.29	0.19	5	5	3.5	157.5	11.15	33	65.9	10.41	1.9	1.1	116	44.35
42	99-RDD-0046	687810.00	5377830.00	0.04	3	1	1.6	20.8	4.75	22	18.0	6.94	1.6	1.2	64	49.12
43	99-RDD-0047	681570.51	5367415.74	0.11	2	2	1.4	30.1	6.70	39	21.5	4.21	1.2	1.2	83	42.95
44	99-RDD-0048	683711.13	5365730.28	0.05	1	4	3.1	15.0	1.42	8	6.4	1.26	<0.9	<0.5	21	33.57
45	99-RDD-0049	683826.00	5363410.00	0.12	2	1	1.2	24.2	6.72	35	17.4	3.03	0.9	1.4	61	42.35
46	99-RDD-0051	684034.38	5361761.81	0.11	3	<1	n/a	48.6	3.32	14	13.6	4.21	n/a	n/a	101	65.99
47	99-RDD-0052	684550.00	5353280.00	0.08	1	4	3.5	21.5	10.67	43	22.7	4.08	1.5	1.6	67	21.78
48	99-RDD-0053	684663.00	5340660.00	0.22	2	<1	2.3	80.8	11.48	92	48.4	4.44	2.8	1.4	91	41.40
49	99-RDD-0054	683584.00	5339490.00	0.23	3	4	3.0	83.1	9.03	75	38.7	5.08	2.6	1.7	76	48.74
50	99-RDD-0055	683890.00	5339280.00	0.30	4	7	3.2	97.7	8.75	75	35.2	4.93	2.8	1.8	89	45.91
51	99-RDD-0056	682156.33	5338735.91	0.12	2	1	<0.9	30.4	5.22	37	24.0	3.50	<0.9	0.5	55	42.98
52	99-RDD-0057	682031.35	5338171.59	0.16	3	2	2.8	35.0	8.71	57	22.6	5.21	1.3	1.0	74	49.44
53	99-RDD-0058	681540.00	5338810.00	0.18	2	1	2.5	39.1	8.20	56	22.6	5.81	1.5	1.4	86	46.29
54	99-RDD-0059	681460.00	5336770.00	0.20	1	3	4.1	49.7	2.17	38	16.5	6.74	2.0	0.9	18	44.10
55	99-RDD-0061	680751.00	5337340.00	0.24	2	3	2.0	41.6	8.90	52	22.6	5.29	1.3	1.0	79	51.50
56	99-RDD-0062	680700.70	5336714.42	0.19	3	2	2.7	27.5	4.69	19	12.7	13.65	1.1	0.6	32	64.66
57	99-RDD-0063	679898.00	5336510.00	0.11	2	<1	n/a	34.4	5.62	28	15.6	3.76	n/a	n/a	51	47.45
58	99-RDD-0064	679920.75	5335688.64	0.12	2	4	2.6	49.7	3.07	20	13.8	3.86	1.9	1.3	38	52.25
59	99-RDD-0065	677372.00	5332830.00	0.19	2	1	2.8	46.1	6.00	44	24.1	3.24	1.4	0.8	57	39.53
60	99-RDD-0066	678562.00	5336680.00	0.10	2	1	3.0	40.1	4.18	13	10.6	2.19	1.9	1.7	51	68.87
61	99-RDD-0067	681427.00	5340230.00	0.22	2	3	2.5	50.8	8.49	61	24.9	8.33	1.6	1.0	85	47.09
62	99-RDD-0068	682039.00	5339790.00	0.19	5	4	n/a	59.6	5.31	38	21.0	15.70	n/a	n/a	59	60.11
63	99-RDD-0069	684454.00	5344670.00	0.17	2	2	2.2	54.5	8.23	68	33.9	7.02	2.5	1.9	72	28.96
64	99-RDD-0071	684211.38	5351574.18	0.25	2	<1	3.6	80.3	7.39	77	34.5	4.39	4.4	2.3	76	40.98
66	99-RDD-0073	684309.00	5360670.00	0.05	1	<1	2.2	13.6	9.09	41	19.2	6.34	1.2	1.2	59	20.63
67	99-RDD-0074	683037.00	5361330.00	0.12	2	2	1.1	20.8	11.24	34	20.1	3.34	1.0	0.8	58	31.01
68	99-RDD-0075	681234.00	5368910.00	0.06	2	2	0.9	23.4	6.00	38	23.2	5.95	1.4	1.3	58	32.66

Site	Sample #	Easting	Northing	Ag	As	Au	Au	Cu	Co	Cr	Ni	Pb	Pd	Pt	Zn	LOI
		NAD83	Method---------->	ICP-MS	INAA	INAA	FA	ICP-MS	ICP-MS	ICP-OES	ICP-MS	ICP-MS	FA	FA	ICP-MS	Grav.
		UTM	Units---------->	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	%
		Zone 15	Detection limit-->	0.02	1	1	0.9	0.5	0.05	4	0.5	0.05	0.9	0.5	1	0.01
70	99-RDD-0077	681244.17	5373826.43	0.08	1	<1	1.8	23.2	7.95	33	20.0	2.46	1.6	1.1	72	18.56
71	99-RDD-0078	685926.00	5374740.00	0.07	3	2	<0.9	28.3	6.97	34	27.8	5.42	1.6	0.8	81	46.51
72	99-RDD-0079	689613.00	5388660.00	0.05	2	1	n/a	17.8	4.11	9	8.4	3.00	n/a	n/a	92	78.98
73	99-RDD-0081	689910.54	5388943.91	0.09	1	<1	n/a	51.7	2.61	6	8.2	1.89	n/a	n/a	57	66.00
74	99-RDD-0082	691915.93	5392982.93	0.11	3	1	1.5	26.2	3.18	10	13.8	3.30	1.1	0.6	76	57.23
75	99-RDD-0083	687281.63	5387233.56	0.06	1	<1	1.9	60.5	3.21	26	31.9	3.01	2.6	1.1	50	54.43
76	99-RDD-0084	685239.49	5381552.81	0.09	4	3	n/a	83.8	5.28	36	43.9	3.05	n/a	n/a	59	48.16
77	99-RDD-0085	683845.79	5377023.73	0.08	2	1	1.4	39.9	2.15	13	10.6	3.80	1.1	1.1	41	42.82
79	99-RDD-0087	683423.00	5364640.00	0.11	2	2	n/a	28.5	4.37	27	13.4	2.82	n/a	n/a	71	54.08
80	99-RDD-0088	683182.00	5364310.00	0.12	3	6	1.9	30.6	7.81	50	17.3	3.38	2.1	1.2	75	50.36
81	99-RDD-0089	682869.02	5363587.88	0.11	2	<1	1.7	28.4	8.87	51	18.6	3.98	1.6	1.0	68	40.20
82	99-RDD-0091	682232.00	5362920.00	0.09	2	<1	1.3	25.9	6.73	35	19.5	3.75	0.9	1.0	63	43.93
83	99-RDD-0092	681765.00	5360940.00	0.20	2	2	0.9	28.1	5.36	33	15.7	5.20	1.2	1.1	70	55.85
86	99-RDD-0095	683713.00	5351720.00	0.13	2	3	3.7	50.9	7.30	53	31.5	3.92	3.6	2.8	66	50.67
87	99-RDD-0096	682817.64	5351351.90	0.09	<1	4	1.4	26.3	7.01	40	22.3	4.39	1.5	2.5	61	24.75
88	99-RDD-0097	683037.00	5350480.00	0.27	3	3	<0.9	93.1	12.89	80	35.6	4.97	<0.9	<0.5	95	54.80
89	99-RDD-0098	682760.17	5350195.63	0.26	2	3	2.4	83.1	8.47	75	31.2	4.16	2.5	2.5	66	49.53
90	99-RDD-0099	683290.68	5349076.16	0.14	2	2	2.3	46.0	6.32	87	37.9	3.48	1.9	1.3	69	48.76
91	99-RDD-0101	684145.63	5348425.46	0.15	1	5	2.6	48.2	8.86	101	37.7	4.51	2.5	2.0	75	27.68
92	99-RDD-0102	684679.00	5346860.00	0.08	4	4	2.4	62.2	7.81	66	43.3	5.55	3.9	2.4	67	51.96
93	99-RDD-0103	683717.60	5346538.83	0.05	<1	9	0.9	21.0	6.18	39	19.9	2.53	1.7	1.6	39	11.04
94	99-RDD-0104	683163.24	5345146.27	0.10	2	3	2.2	48.8	8.32	72	37.1	8.26	2.8	2.6	74	34.98
95	99-RDD-0105	682554.00	5344880.00	0.35	3	5	3.3	129.4	7.12	69	40.8	4.90	3.0	1.5	76	44.43
96	99-RDD-0106	683150.00	5344600.00	0.24	3	2	n/a	73.4	3.51	36	21.7	3.92	n/a	n/a	47	65.40
97	99-RDD-0107	684695.00	5343770.00	0.09	8	2	2.6	76.9	7.43	49	32.6	3.59	5.6	3.0	51	23.21
98	99-RDD-0108	683813.21	5343144.87	0.15	3	2	2.6	52.8	8.88	69	33.4	6.73	2.8	2.1	71	23.09
99	99-RDD-0109	683085.00	5340610.00	0.19	2	7	8.6	70.0	8.69	69	34.3	5.60	4.1	2.1	68	52.46
100	99-RDD-0111	681122.00	5339970.00	0.09	3	3	n/a	46.0	6.19	27	16.4	4.69	n/a	n/a	75	66.31
101	99-RDD-0112	680751.00	5340160.00	0.16	2	4	n/a	49.8	5.21	23	16.5	5.47	n/a	n/a	70	66.17
102	99-RDD-0113	680590.00	5339680.00	0.12	2	2	2.2	43.1	6.12	54	26.0	5.23	1.8	1.5	70	48.52
103	99-RDD-0114	680993.00	5339100.00	0.17	3	<1	1.9	36.0	7.75	53	22.2	6.72	1.6	1.4	81	44.15
104	99-RDD-0115	680156.00	5338750.00	0.11	1	2	1.4	31.0	7.52	46	27.5	3.88	2.0	1.7	71	39.59
105	99-RDD-0116	679264.92	5337912.72	0.05	2	1	1.9	29.0	3.72	17	13.5	3.88	1.5	1.1	46	65.93
106	99-RDD-0117	679786.00	5339370.00	0.12	2	<1	2.1	34.9	7.52	50	24.9	4.50	2.3	2.0	66	46.47
107	99-RDD-0118	679126.00	5339340.00	0.25	1	2	2.4	47.1	10.00	55	22.8	6.53	2.0	1.7	86	44.68
108	99-RDD-0119	679399.00	5339940.00	0.27	3	5	3.8	71.2	7.07	51	25.5	5.68	2.8	3.3	65	47.39
109	99-RDD-0121	679834.00	5340420.00	0.15	2	2	3.1	59.6	6.22	55	23.6	5.17	3.0	2.1	60	43.17
110	99-RDD-0122	679367.00	5340840.00	0.17	2	1	2.1	68.2	7.12	33	20.8	4.08	2.4	1.3	52	63.44
111	99-RDD-0123	681814.00	5341710.00	0.62	<1	4	4.9	154.4	8.59	92	35.7	6.65	3.4	1.7	70	42.57
112	99-RDD-0124	681218.00	5341870.00	0.20	<1	3	3.6	74.2	6.60	70	31.6	5.60	3.3	2.4	56	32.66
113	99-RDD-0125	681813.78	5346778.07	0.12	<1	4	2.2	50.1	7.77	77	34.0	4.54	2.9	2.2	61	28.73
114	99-RDD-0126	681975.00	5347900.00	0.15	<1	1	3.5	53.6	10.41	102	43.3	6.19	3.3	2.3	73	27.47
115	99-RDD-0127	682152.00	5349300.00	0.22	<1	2	3.2	77.8	7.17	61	29.7	4.49	3.6	2.2	64	54.08
116	99-RDD-0128	682087.00	5350160.00	0.13	2	2	1.9	35.9	4.92	28	13.9	3.72	2.4	2.4	80	59.85
117	99-RDD-0129	682232.00	5350980.00	0.11	2	2	2.1	36.4	5.18	31	17.3	3.74	2.3	1.5	57	62.66
119	99-RDD-0132	679625.00	5361280.00	0.13	2	<1	1.9	38.4	12.20	48	20.5	4.11	2.2	1.6	65	51.29
120	99-RDD-0133	679512.00	5361940.00	0.08	2	<1	1.2	26.3	4.96	30	14.9	5.43	1.8	1.8	53	47.33
121	99-RDD-0134	679898.00	5368560.00	0.10	3	<1	2.5	24.2	3.47	21	10.0	3.89	1.6	1.4	68	51.63
122	99-RDD-0135	679402.01	5368410.24	0.06	2	<1	2.2	18.8	3.64	28	15.0	3.48	1.6	1.8	40	35.63
123	99-RDD-0136	688421.00	5388350.00	0.04	2	<1	n/a	23.7	1.91	9	6.1	2.22	n/a	n/a	51	66.58
124	99-RDD-0137	689901.02	5393818.32	0.24	1	<1	2.0	40.1	5.02	21	19.2	4.15	3.0	1.8	88	64.46
125	99-RDD-0138	689419.00	5393830.00	0.09	1	<1	1.2	44.5	6.81	26	22.6	3.78	1.8	1.4	112	44.10
126	99-RDD-0139	695134.00	5393940.00	0.11	3	2	1.6	46.3	5.64	28	24.3	3.04	2.8	2.0	68	51.98
127	99-RDD-0141	696405.00	5394150.00	0.11	2	1	2.2	66.6	4.56	19	15.4	3.85	3.8	1.9	121	51.19
128	99-RDD-0142	697293.33	5394391.46	0.10	4	2	1.1	38.5	4.32	17	18.2	3.39	2.6	1.7	54	44.54
129	99-RDD-0143	698997.00	5394840.00	0.04	2	1	1.0	21.7	2.91	12	15.4	1.71	1.7	1.3	35	39.92
130	99-RDD-0144	700896.00	5394150.00	0.03	4	1	1.2	14.4	4.00	9	12.6	2.75	2.4	1.4	74	59.90
131	99-RDD-0145	702987.21	5393889.50	<0.02	4	<1	1.2	29.6	3.85	26	16.7	1.64	3.8	1.7	72	50.66
132	99-RDD-0146	705528.04	5394192.25	0.02	2	<1	n/a	53.3	8.90	31	28.0	4.67	n/a	n/a	104	56.82
133	99-RDD-0147	710329.00	5391280.00	<0.02	3	1	0.9	39.8	4.73	16	18.1	3.14	4.1	2.4	46	47.48
134	99-RDD-0148	709395.00	5391620.00	<0.02	3	<1	1.1	40.2	13.89	9	13.6	0.50	4.9	2.8	92	64.99

Site	Sample #	Easting	Northing	Ag	As	Au	Au	Cu	Co	Cr	Ni	Pb	Pd	Pt	Zn	LOI
		NAD83	Method---------->	ICP-MS	INAA	INAA	FA	ICP-MS	ICP-MS	ICP-OES	ICP-MS	ICP-MS	FA	FA	ICP-MS	Grav.
		UTM	Units---------->	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	%
		Zone 15	Detection limit-->	0.02	1	1	0.9	0.5	0.05	4	0.5	0.05	0.9	0.5	1	0.01
135	99-RDD-0149	709572.00	5390770.00	<0.02	2	1	2.1	42.7	15.61	21	21.2	2.44	3.5	2.0	110	57.70
136	99-RDD-0151	711437.36	5393499.64	<0.02	2	<1	1.6	26.6	2.46	16	11.5	2.22	3.4	2.6	35	54.19
137	99-RDD-0152	716663.00	5391700.00	<0.02	2	<1	0.9	18.4	1.12	9	10.9	2.75	1.9	1.2	33	43.64
138	99-RDD-0153	719399.00	5390770.00	<0.02	2	<1	n/a	35.3	2.44	17	15.1	1.78	n/a	n/a	52	63.73
139	99-RDD-0154	719818.00	5387690.00	<0.02	5	<1	1.3	32.7	1.54	16	16.7	1.21	3.7	2.0	54	59.40
140	99-RDD-0155	720199.20	5386775.39	<0.02	4	<1	n/a	25.2	1.62	8	12.8	0.82	n/a	n/a	51	57.45
141	99-RDD-0156	719344.34	5386819.18	<0.02	4	<1	1.3	26.8	1.41	9	9.3	1.63	1.9	2.3	49	57.50
142	99-RDD-0157	720349.00	5384070.00	<0.02	9	<1	2.5	58.0	4.88	37	21.6	3.22	5.6	2.9	70	61.73
143	99-RDD-0158	719802.00	5384460.00	<0.02	6	<1	1.6	38.5	0.39	8	13.4	0.82	2.9	1.8	38	54.40
144	99-RDD-0159	719979.00	5384750.00	<0.02	9	1	1.7	53.1	0.28	8	19.0	1.10	3.7	2.5	36	53.89
145	99-RDD-0161	718903.42	5382377.71	<0.02	1	<1	1.1	11.0	0.92	9	7.4	1.81	1.4	1.4	29	38.78
147	99-RDD-0163	713693.00	5378760.00	0.07	2	1	1.7	26.3	1.15	11	12.9	3.86	1.8	1.5	25	52.62
148	99-RDD-0164	712357.00	5378120.00	<0.02	1	<1	2.0	52.5	4.50	25	16.7	1.47	3.1	2.0	65	62.32
149	99-RDD-0165	710767.87	5379211.99	<0.02	3	<1	1.5	46.7	5.15	27	25.8	5.24	3.5	1.9	66	48.60
150	99-RDD-0166	710213.02	5379518.20	0.02	2	<1	2.0	62.7	2.17	17	15.1	1.43	2.6	1.5	57	50.05
152	99-RDD-0168	710538.00	5380760.00	<0.02	2	<1	1.4	38.8	0.89	4	10.2	1.08	2.9	1.5	28	38.24
153	99-RDD-0169	710398.94	5381245.91	<0.02	3	2	n/a	64.5	3.68	11	14.1	2.49	n/a	n/a	137	64.09
154	99-RDD-0171	710039.00	5381550.00	<0.02	2	4	n/a	26.0	1.41	13	7.9	6.55	n/a	n/a	73	65.71
155	99-RDD-0172	709508.00	5381190.00	<0.02	2	<1	n/a	29.5	1.12	10	8.8	1.55	n/a	n/a	45	59.69
156	99-RDD-0173	707898.00	5380760.00	0.07	2	<1	1.0	28.0	2.28	10	10.9	2.37	2.9	1.3	60	50.07
157	99-RDD-0174	706900.00	5380340.00	0.07	2	<1	n/a	53.9	3.38	15	15.1	2.14	n/a	n/a	72	62.31
158	99-RDD-0175	706128.00	5380420.00	0.09	3	<1	n/a	54.9	5.34	25	26.1	2.92	n/a	n/a	90	55.74
159	99-RDD-0176	705430.46	5380887.85	0.09	1	1	1.2	27.5	1.48	<4	6.9	1.16	1.8	2.6	55	61.24
160	99-RDD-0177	704663.00	5380350.00	0.09	2	2	1.4	52.0	5.61	26	15.9	3.56	3.3	2.8	84	47.28
161	99-RDD-0178	704457.74	5380560.25	0.04	1	<1	<0.9	30.7	1.91	6	8.3	1.51	2.0	1.4	62	72.31
162	99-RDD-0179	703451.26	5380711.93	0.13	3	3	2.1	77.8	6.41	80	32.9	6.08	5.0	3.2	83	42.98
163	99-RDD-0181	702806.83	5379906.78	0.08	5	<1	3.6	50.5	13.81	50	38.3	5.18	6.4	3.2	130	29.22
164	99-RDD-0182	701256.24	5379495.70	0.06	4	<1	1.5	51.7	5.42	21	18.2	5.63	4.4	3.6	57	51.96
165	99-RDD-0183	700755.95	5379887.92	0.05	4	<1	1.1	32.0	3.83	8	12.8	3.26	3.0	1.7	58	51.73
166	99-RDD-0184	700896.00	5380500.00	0.05	3	<1	0.9	46.3	5.37	12	16.7	3.12	2.7	2.1	99	66.77
167	99-RDD-0185	699963.00	5380950.00	0.07	3	4	1.4	58.3	5.30	19	19.4	3.03	3.6	1.7	80	53.82
168	99-RDD-0186	699554.33	5381179.43	0.07	3	<1	n/a	47.8	5.52	21	22.5	3.76	n/a	n/a	116	63.58
169	99-RDD-0187	698627.00	5381160.00	0.05	3	1	1.1	31.4	2.53	10	17.6	2.92	3.6	2.2	49	52.71
170	99-RDD-0188	698063.00	5380980.00	0.25	4	2	1.6	60.5	6.91	43	55.6	3.24	3.9	2.4	75	58.34
171	99-RDD-0189	697229.29	5381012.42	0.09	4	1	n/a	67.0	4.68	15	21.5	2.01	n/a	n/a	75	61.50
172	99-RDD-0191	696237.45	5380140.06	0.10	2	2	1.7	75.7	7.34	21	27.2	2.67	4.0	2.0	97	59.39
173	99-RDD-0192	696389.00	5379550.00	0.03	1	<1	n/a	32.7	3.87	9	15.2	1.29	n/a	n/a	52	69.47
174	99-RDD-0193	695826.00	5379810.00	0.12	2	2	1.7	100.4	11.22	25	31.2	1.75	4.3	2.6	105	58.77
175	99-RDD-0194	695858.00	5380290.00	0.11	2	3	n/a	173.9	4.81	14	22.6	2.24	n/a	n/a	89	59.57
176	99-RDD-0195	694763.00	5381430.00	0.07	3	1	1.9	67.6	5.22	20	30.5	2.41	3.5	2.6	74	46.78
177	99-RDD-0196	694425.00	5383610.00	0.11	2	2	1.7	44.5	5.01	17	20.4	3.70	3.1	2.2	105	66.70
178	99-RDD-0197	694110.63	5384401.49	0.21	2	<1	1.5	46.7	10.64	28	30.6	3.12	5.3	3.1	58	20.96
179	99-RDD-0198	692429.00	5385840.00	0.10	3	2	2.8	61.7	4.50	22	25.6	3.37	3.0	3.0	64	50.55
181	99-RDD-0201	691560.00	5387660.00	0.03	2	<1	n/a	40.2	2.82	12	11.8	2.20	n/a	n/a	55	78.89
182	99-RDD-0202	686425.00	5391640.00	0.07	2	<1	n/a	31.1	5.77	30	20.7	6.88	n/a	n/a	68	58.58
183	99-RDD-0203	685270.51	5390351.70	0.03	4	2	1.1	27.9	8.06	23	22.0	3.08	3.9	2.3	51	22.24
184	99-RDD-0204	684236.00	5389500.00	0.05	4	2	n/a	27.1	6.44	20	19.5	5.58	n/a	n/a	75	60.69
185	99-RDD-0205	684128.86	5384566.18	0.07	<1	2	3.9	59.3	6.43	17	9.8	1.92	4.3	2.1	85	69.64
186	99-RDD-0206	684356.19	5383923.09	0.03	<1	<1	1.0	36.2	3.77	9	12.6	1.91	2.9	1.7	50	52.04
187	99-RDD-0207	682182.91	5379727.36	0.07	3	1	0.9	42.4	6.67	46	32.4	4.63	4.0	2.7	43	27.02
188	99-RDD-0208	683222.00	5376540.00	0.10	1	2	0.9	76.9	2.97	28	15.4	5.09	3.1	2.2	51	34.93
189	99-RDD-0209	682594.00	5375800.00	0.11	2	2	1.1	63.7	4.21	28	24.5	2.60	3.7	1.8	44	35.04
190	99-RDD-0211	680365.00	5374010.00	0.13	2	2	1.8	42.4	9.71	59	32.4	3.96	3.7	2.5	111	32.35
191	99-RDD-0212	680043.00	5372450.00	0.06	<1	<1	1.0	20.4	2.95	27	13.0	3.28	2.2	1.5	31	29.97
192	99-RDD-0213	679605.60	5371999.73	0.08	2	<1	<0.9	28.7	2.77	36	16.8	5.58	2.2	1.5	91	48.58
193	99-RDD-0214	678466.00	5370000.00	0.23	2	2	1.6	47.9	9.82	55	21.2	5.90	3.0	1.8	88	39.51
194	99-RDD-0215	677487.35	5367581.64	0.20	1	1	<0.9	35.0	2.32	19	10.8	3.10	2.2	1.6	90	56.68
195	99-RDD-0216	677632.67	5365483.78	0.04	1	<1	1.2	24.6	2.24	14	15.5	3.59	1.5	1.2	40	43.04
196	99-RDD-0217	676604.36	5363874.30	0.05	<1	3	1.3	36.4	3.32	30	15.9	4.29	1.6	1.9	35	27.05
197	99-RDD-0218	679898.00	5359610.00	0.10	2	2	1.7	48.2	2.20	29	20.9	3.37	1.8	1.5	58	56.42
198	99-RDD-0219	680542.00	5357370.00	0.02	2	1	2.1	31.3	5.22	39	25.2	4.46	3.8	2.5	41	18.62

Site	Sample #	Easting	Northing	Ag	As	Au	Au	Cu	Co	Cr	Ni	Pb	Pd	Pt	Zn	LOI
		NAD83	Method---------->	ICP-MS	INAA	INAA	FA	ICP-MS	ICP-MS	ICP-OES	ICP-MS	ICP-MS	FA	FA	ICP-MS	Grav.
		UTM	Units---------->	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	%
		Zone 15	Detection limit-->	0.02	1	1	0.9	0.5	0.05	4	0.5	0.05	0.9	0.5	1	0.01
199	99-RDD-0221	680285.00	5355420.00	0.03	4	2	1.2	23.7	6.52	32	23.6	4.14	2.6	2.5	50	36.12
201	99-RDD-0223	680945.73	5354802.62	0.07	2	4	3.1	32.4	9.61	43	25.9	4.29	3.9	2.4	69	33.42
202	99-RDD-0224	680735.00	5351930.00	0.08	2	2	1.7	33.3	5.03	36	10.7	2.92	2.6	2.5	48	45.65
204	99-RDD-0226	681238.43	5349450.36	0.23	3	<1	0.9	30.2	5.97	39	17.0	6.57	2.4	1.9	74	43.16
205	99-RDD-0227	679859.33	5348293.86	0.10	2	<1	1.1	22.0	2.41	28	12.2	3.48	1.3	1.0	115	73.56
206	99-RDD-0228	684309.00	5345910.00	0.13	3	<1	3.9	49.2	8.04	79	34.8	4.33	3.8	2.6	80	23.43
208	99-RDD-0231	681492.00	5343490.00	0.10	3	3	2.9	64.4	6.91	58	38.4	6.50	4.1	3.0	59	30.00
209	99-RDD-0232	680440.77	5342247.71	0.18	2	6	2.1	70.7	5.99	60	31.9	9.48	5.1	3.4	58	37.38
210	99-RDD-0233	680416.13	5341371.93	0.21	2	5	2.9	65.2	5.26	56	27.3	14.54	3.5	2.4	59	34.72
211	99-RDD-0234	678394.42	5340922.41	0.19	1	4	2.8	70.6	7.06	46	21.9	4.04	3.6	3.1	63	46.08
212	99-RDD-0235	677709.00	5339680.00	0.20	2	7	2.8	51.4	13.58	74	36.0	4.28	3.8	3.5	92	39.51
213	99-RDD-0236	677983.00	5338420.00	0.08	2	2	1.4	36.5	6.08	33	20.2	3.09	2.3	1.6	59	48.49
214	99-RDD-0237	676937.00	5336310.00	0.10	1	2	1.9	27.4	3.86	30	13.6	2.79	2.5	1.5	36	42.72
215	99-RDD-0238	676284.28	5335915.34	0.06	1	2	1.9	19.9	3.51	22	9.7	3.68	2.6	1.6	31	48.68
217	99-RDD-0241	673637.00	5332050.00	0.09	3	3	n/a	39.0	2.86	18	14.7	2.32	n/a	n/a	76	50.52
218	99-RDD-0242	675025.37	5336129.85	0.09	2	3	1.9	26.5	3.98	35	14.4	3.59	2.5	1.8	43	47.88
219	99-RDD-0243	677146.00	5340350.00	0.17	2	1	2.2	51.0	6.12	69	25.6	4.20	3.8	2.7	66	43.38
222	99-RDD-0246	679914.00	5351830.00	0.16	4	2	1.8	31.9	15.59	42	18.1	13.74	2.2	1.8	72	52.74
223	99-RDD-0247	677580.00	5359430.00	0.21	2	2	1.3	29.5	11.36	49	23.7	5.27	2.7	2.3	84	34.87
224	99-RDD-0248	677564.00	5369300.00	0.29	1	1	2.0	32.4	5.67	35	14.8	10.63	2.2	1.5	55	45.30
227	99-RDD-0252	683464.00	5383620.00	0.09	3	4	n/a	66.8	3.28	13	9.6	10.57	n/a	n/a	101	64.05
228	99-RDD-0253	686651.00	5391040.00	0.05	2	1	n/a	16.8	3.08	13	9.2	2.61	n/a	n/a	97	72.33
229	99-RDD-0254	686120.00	5391010.00	0.09	5	1	1.3	33.5	7.54	39	20.5	5.88	5.3	2.4	107	61.92
230	99-RDD-0255	685878.00	5391540.00	0.13	2	2	2.2	38.5	3.16	18	13.1	3.56	5.7	2.9	71	54.74
231	99-RDD-0256	695988.42	5393261.34	0.10	3	4	n/a	67.2	2.00	10	14.4	12.89	n/a	n/a	47	64.09
232	99-RDD-0257	694973.00	5392890.00	0.05	2	1	1.4	34.9	2.48	9	8.5	1.90	2.6	1.6	71	73.15
233	99-RDD-0258	697258.00	5393680.00	0.10	2	4	4.0	139.0	3.84	10	18.1	2.08	4.6	1.7	86	58.20
234	99-RDD-0259	699753.57	5393811.79	0.05	2	<1	n/a	24.7	3.34	13	14.3	4.61	n/a	n/a	58	60.08
235	99-RDD-0261	699062.73	5393014.99	0.09	2	1	n/a	42.9	4.02	13	14.6	3.11	n/a	n/a	78	66.67
236	99-RDD-0262	705661.00	5392390.00	0.05	1	1	1.0	26.8	2.60	8	9.5	1.66	2.5	1.4	69	62.82
237	99-RDD-0263	704470.00	5392480.00	0.09	2	4	2.4	54.8	6.72	23	19.4	3.29	4.3	2.0	72	57.54
238	99-RDD-0264	704808.00	5392970.00	0.05	3	1	0.9	31.5	3.52	13	18.5	2.74	2.5	2.0	53	53.74
239	99-RDD-0265	703761.32	5392248.82	0.07	2	2	1.2	37.2	4.76	18	18.9	3.41	2.4	1.7	53	45.19
240	99-RDD-0266	702255.70	5394876.44	0.09	5	5	1.3	54.1	7.61	30	25.2	5.87	8.3	2.3	75	35.84
241	99-RDD-0267	704647.00	5394910.00	0.09	3	1	1.0	59.7	4.97	19	20.0	2.70	4.5	1.5	64	44.58
242	99-RDD-0268	706175.46	5395606.98	0.14	2	<1	1.2	63.4	10.79	40	30.2	4.71	3.7	2.0	102	31.53
243	99-RDD-0269	708877.41	5395579.22	0.13	2	1	1.4	39.0	8.61	25	19.4	3.67	3.2	1.6	79	41.65
244	99-RDD-0271	711310.04	5396070.71	0.11	1	2	1.1	23.8	6.45	24	17.8	7.62	3.2	1.7	43	35.51
246	99-RDD-0273	713728.71	5396505.97	0.07	1	<1	0.9	26.0	4.68	16	16.1	1.84	3.6	1.8	40	34.77
247	99-RDD-0274	713238.55	5395114.59	0.11	1	1	0.9	33.7	15.49	39	31.7	3.69	4.0	2.2	114	27.92
248	99-RDD-0275	717097.00	5397740.00	0.13	2	2	1.4	35.0	12.86	40	33.8	3.59	4.7	2.1	111	30.03
249	99-RDD-0276	716148.00	5397320.00	0.06	<1	2	0.9	19.7	6.10	28	19.6	3.53	3.5	2.1	60	19.70
250	99-RDD-0277	715251.80	5397134.61	0.16	2	2	1.6	40.5	19.28	42	31.7	4.20	4.4	3.0	108	34.36
251	99-RDD-0278	720381.00	5395400.00	0.14	2	2	1.3	41.7	6.52	24	19.4	2.80	3.1	1.6	79	39.24
252	99-RDD-0279	719222.00	5399080.00	0.16	3	1	1.3	40.4	11.59	36	28.4	3.04	4.6	1.9	108	38.89
253	99-RDD-0281	719303.00	5398010.00	0.12	2	1	1.9	41.5	9.06	34	27.6	2.74	5.6	2.4	102	42.63
254	99-RDD-0282	720043.00	5401260.00	0.06	<1	<1	<0.9	15.7	3.40	14	11.9	2.48	2.6	1.9	52	30.79
255	99-RDD-0283	717790.00	5400990.00	0.11	1	1	1.6	37.3	4.68	10	13.4	2.25	4.1	2.1	65	46.67
256	99-RDD-0284	717773.00	5403440.00	0.05	<1	<1	1.5	14.9	1.92	10	9.6	2.62	2.3	1.7	31	34.58
257	99-RDD-0285	716845.10	5402676.13	0.06	2	<1	1.1	19.1	3.55	14	14.6	2.96	3.2	2.0	40	38.52
259	99-RDD-0287	714409.00	5401960.00	0.04	1	<1	1.8	15.2	2.38	12	10.5	3.02	2.9	1.7	38	31.43
260	99-RDD-0288	714200.00	5400590.00	0.05	1	<1	1.2	19.5	3.95	19	12.8	4.20	3.7	1.6	50	35.43
261	99-RDD-0289	716389.00	5400020.00	0.08	2	<1	0.9	27.5	4.36	18	16.7	2.12	2.5	1.3	39	26.63
262	99-RDD-0291	715706.39	5399478.71	0.08	2	2	1.4	26.3	8.00	32	19.5	6.27	3.8	2.1	75	40.45
263	99-RDD-0292	712510.00	5399480.00	0.05	1	<1	1.0	18.8	4.64	21	14.9	3.00	3.3	1.7	45	29.06
264	99-RDD-0293	712406.09	5399779.44	0.10	2	<1	1.6	26.4	8.40	37	21.8	5.88	5.4	2.8	54	28.09
265	99-RDD-0294	710137.82	5400428.18	0.04	1	1	2.6	15.9	2.49	11	9.9	1.22	2.2	1.5	35	30.94
266	99-RDD-0295	708666.29	5401294.84	0.13	2	<1	1.3	31.8	9.99	29	21.1	4.44	3.7	1.8	101	37.62
267	99-RDD-0296	707560.00	5402860.00	0.03	1	<1	0.9	17.0	1.46	6	7.2	1.43	2.0	1.3	33	40.88
268	99-RDD-0297	706739.00	5402420.00	0.06	2	<1	1.2	26.6	4.71	13	14.2	2.76	2.4	1.7	62	51.79
269	99-RDD-0298	707592.00	5400780.00	0.12	2	2	1.5	39.4	7.70	28	22.6	3.65	4.3	2.2	74	50.02

Site	Sample #	Easting	Northing	Ag	As	Au	Au	Cu	Co	Cr	Ni	Pb	Pd	Pt	Zn	LOI
		NAD83	Method---------->	ICP-MS	INAA	INAA	FA	ICP-MS	ICP-MS	ICP-OES	ICP-MS	ICP-MS	FA	FA	ICP-MS	Grav.
		UTM	Units---------->	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	%
		Zone 15	Detection limit-->	0.02	1	1	0.9	0.5	0.05	4	0.5	0.05	0.9	0.5	1	0.01
270	99-RDD-0299	708398.72	5397793.03	0.12	1	<1	1.4	35.0	3.51	12	13.0	2.91	2.0	1.5	60	46.95
271	99-RDD-0301	707590.46	5397924.94	0.11	<1	<1	1.1	31.6	6.75	30	19.8	4.46	2.8	2.4	66	35.90
272	99-RDD-0302	707270.00	5398870.00	0.20	<1	2	1.6	46.9	10.55	35	22.5	3.41	3.2	2.1	78	40.66
273	99-RDD-0303	706610.00	5400380.00	0.22	1	2	2.0	40.1	13.09	33	17.9	3.83	3.1	2.0	98	44.82
274	99-RDD-0304	705347.85	5399818.46	0.13	2	4	2.1	46.0	8.76	46	26.1	4.77	3.6	2.2	100	31.58
275	99-RDD-0305	704470.00	5399090.00	0.06	2	4	1.4	29.8	6.23	24	19.2	3.86	2.6	1.7	56	38.34
276	99-RDD-0306	703439.00	5398580.00	0.05	3	2	1.3	26.2	5.35	23	21.1	3.88	3.3	2.2	55	36.65
277	99-RDD-0307	703456.00	5398040.00	0.04	1	1	0.9	24.1	3.95	15	14.1	2.13	2.1	1.5	43	34.93
278	99-RDD-0308	701844.13	5396264.46	0.16	6	2	5.0	61.2	15.59	52	50.5	4.91	5.4	3.1	128	32.71
279	99-RDD-0309	702561.13	5395767.79	0.13	4	<1	1.7	47.5	7.01	28	24.5	4.28	2.3	1.6	99	57.86
280	99-RDD-0311	696856.00	5396020.00	0.06	1	<1	1.4	19.9	2.26	13	12.5	3.89	2.2	1.7	35	37.98
281	99-RDD-0312	694023.00	5392750.00	0.08	3	<1	2.5	56.2	5.93	27	26.1	2.55	3.3	2.2	65	37.61
282	99-RDD-0313	689580.53	5394110.11	0.08	2	2	1.2	25.2	9.03	17	15.5	2.33	2.1	1.7	84	41.05
283	99-RDD-0314	688293.00	5393920.00	0.05	<1	1	1.2	16.0	4.25	19	14.2	3.60	2.1	1.7	56	30.53
284	99-RDD-0315	685365.82	5389839.27	0.11	3	4	2.4	41.0	13.83	6	15.1	1.94	3.0	2.0	66	54.89
285	99-RDD-0316	681500.00	5386570.00	0.04	<1	2	3.0	22.4	4.86	16	10.7	2.39	1.8	1.7	78	43.50
286	99-RDD-0317	683190.00	5382540.00	0.12	2	3	n/a	73.9	6.29	69	30.9	4.38	n/a	n/a	68	48.64
289	99-RDD-0321	677307.00	5371730.00	0.14	2	<1	4.2	48.4	8.16	44	29.6	3.62	3.0	2.2	89	52.31
290	99-RDD-0322	676953.00	5365640.00	0.16	1	2	2.0	43.2	4.51	32	20.4	3.52	2.6	2.0	52	33.27
291	99-RDD-0323	677001.00	5358460.00	0.13	3	3	1.9	30.1	11.00	43	22.0	4.81	2.4	2.1	109	44.01
292	99-RDD-0324	678063.00	5357510.00	0.13	3	<1	1.4	53.5	5.16	33	21.3	3.15	1.9	1.4	110	64.10
293	99-RDD-0325	678955.11	5351647.40	0.07	2	<1	1.7	24.5	2.77	14	9.6	2.16	1.9	1.6	65	65.54
294	99-RDD-0326	677883.28	5350772.50	0.12	2	4	2.3	39.4	6.42	49	23.3	4.02	3.3	2.0	85	40.05
296	99-RDD-0328	681085.55	5346330.06	0.12	2	<1	1.7	40.3	9.54	75	37.1	5.46	3.6	3.3	68	22.08
297	99-RDD-0329	680665.70	5345297.93	0.20	2	2	2.5	57.7	8.00	81	34.9	8.19	4.0	3.3	84	28.57
299	99-RDD-0332	679071.00	5343315.81	0.19	3	<1	3.5	58.6	8.34	83	35.0	11.69	4.0	3.7	87	28.12
300	99-RDD-0333	676546.49	5341362.03	0.13	2	<1	1.8	44.5	10.39	56	31.0	4.25	3.2	2.3	126	34.14
301	99-RDD-0334	676904.00	5339650.00	0.26	3	1	2.7	58.9	11.43	69	26.8	8.51	2.8	2.1	97	44.87
302	99-RDD-0335	676035.00	5339450.00	0.24	3	4	2.8	52.0	9.82	67	24.4	8.04	2.8	2.1	90	46.21
303	99-RDD-0336	675327.00	5335900.00	0.13	2	1	2.5	39.3	7.32	50	22.1	3.22	3.0	2.0	54	44.27
304	99-RDD-0337	673540.00	5333900.00	0.07	2	2	1.6	19.1	4.45	20	13.3	3.20	2.1	1.6	74	73.99
305	99-RDD-0338	673347.00	5333080.00	0.07	2	2	1.7	29.3	2.46	13	11.8	4.04	2.6	1.5	44	57.44
306	99-RDD-0339	670884.00	5332640.00	0.83	3	11	n/a	<0.5	14.42	169	76.8	6.57	n/a	n/a	107	46.58
307	99-RDD-0341	670321.00	5331230.00	0.22	16	2	2.8	98.8	7.55	43	31.8	10.45	2.9	3.8	254	33.26
308	99-RDD-0342	672191.42	5331860.04	0.19	3	5	2.3	72.4	4.09	20	21.5	2.76	3.2	1.6	241	64.55
309	99-RDD-0343	671110.00	5331900.00	0.24	4	2	2.2	83.9	5.66	31	26.7	4.37	3.4	2.1	226	49.83
310	99-RDD-0344	669852.34	5330973.87	0.11	1	3	1.2	39.6	3.61	29	16.1	4.19	1.3	1.1	73	35.56
311	99-RDD-0345	670044.24	5330793.55	0.20	2	3	2.4	99.3	4.55	23	16.9	4.06	3.4	1.7	39	32.36
312	99-RDD-0346	670009.81	5330297.35	0.18	11	4	2.9	108.3	15.99	34	40.9	2.36	6.0	2.6	100	52.56
313	99-RDD-0347	669379.31	5331510.62	0.07	1	<1	2.1	37.6	3.02	9	9.9	1.39	2.8	1.5	95	69.46
314	99-RDD-0348	673025.00	5336700.00	0.08	2	2	2.1	24.0	6.54	35	20.4	3.65	2.9	2.6	66	51.30
315	99-RDD-0349	675681.00	5341560.00	0.09	3	1	2.1	35.7	5.92	46	26.0	3.26	2.9	2.9	79	62.67
318	99-RDD-0353	676274.71	5351851.64	0.08	1	2	1.3	24.0	2.71	18	10.8	3.27	1.8	1.5	53	62.12
320	99-RDD-0355	678675.00	5355160.00	0.11	3	1	1.0	30.9	8.62	40	26.7	3.73	1.5	1.5	85	43.64
321	99-RDD-0356	675665.00	5365640.00	0.14	1	2	1.2	29.1	6.37	38	17.8	3.33	1.7	1.5	57	37.06
322	99-RDD-0357	675706.13	5368355.15	0.11	2	<1	2.2	21.3	2.83	22	12.0	3.13	2.4	2.5	34	34.67
323	99-RDD-0358	677728.34	5369794.24	0.43	<1	3	2.8	61.8	4.48	25	15.0	3.58	2.5	2.2	64	51.29
325	99-RDD-0361	677596.00	5374160.00	0.27	<1	2	4.8	124.7	5.15	44	37.8	9.41	3.6	2.7	102	32.83
326	99-RDD-0362	678808.32	5376579.03	0.12	2	<1	1.5	129.6	6.00	31	65.2	6.12	3.2	1.9	114	55.90
327	99-RDD-0363	682934.26	5381860.96	0.16	2	1	1.8	74.8	8.64	81	29.0	6.54	4.5	2.0	94	43.53
328	99-RDD-0364	682940.73	5388396.15	0.06	25	<1	1.3	18.9	6.42	<4	11.8	1.52	4.6	2.7	38	38.15
329	99-RDD-0365	686361.00	5390350.00	0.05	2	1	1.5	25.3	3.63	10	10.8	2.94	2.1	1.5	85	46.60
330	99-RDD-0366	685485.10	5386384.48	0.10	5	2	3.4	73.6	8.44	42	43.4	4.47	4.6	2.7	86	46.58
332	99-RDD-0368	686699.00	5375960.00	0.05	4	1	1.7	29.1	6.34	28	24.0	4.00	3.8	2.5	58	31.86
333	99-RDD-0369	676969.00	5374000.00	0.18	2	1	1.1	54.0	6.61	52	32.0	4.00	1.5	1.2	71	41.94
334	99-RDD-0371	676297.85	5372728.20	0.12	2	<1	2.2	42.2	9.82	64	43.7	4.73	4.4	4.3	85	36.04
335	99-RDD-0372	676357.00	5371130.00	0.13	3	<1	2.0	31.4	7.05	40	25.8	6.00	2.8	2.3	70	49.94
336	99-RDD-0373	673766.27	5368535.11	0.07	<1	2	5.6	20.7	7.98	47	28.0	4.14	2.6	2.1	83	25.13
337	99-RDD-0374	673910.00	5366830.00	0.15	2	<1	1.4	24.2	4.32	33	16.3	4.16	3.1	1.0	51	41.40
338	99-RDD-0375	674032.61	5365460.71	0.16	1	<1	1.5	37.2	2.68	21	11.5	2.82	1.6	n/a	44	41.36
339	99-RDD-0376	674603.00	5364560.00	0.11	1	1	1.7	75.6	4.52	42	26.9	3.58	3.0	n/a	31	38.62

Site	Sample #	Easting	Northing	Ag	As	Au	Au	Cu	Co	Cr	Ni	Pb	Pd	Pt	Zn	LOI
		NAD83	Method---------->	ICP-MS	INAA	INAA	FA	ICP-MS	ICP-MS	ICP-OES	ICP-MS	ICP-MS	FA	FA	ICP-MS	Grav.
		UTM	Units---------->	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	%
		Zone 18	Detection limit-->	0.02	1	1	0.9	0.5	0.05	4	0.5	0.05	0.9	0.5	1	0.01
340	99-RDD-0377	673669.00	5364840.00	0.17	1	2	1.5	42.1	9.19	49	22.1	4.06	2.4	1.1	58	42.08
341	99-RDD-0378	674023.00	5362120.00	0.08	1	<1	1.2	25.0	3.18	26	13.8	2.88	1.8	n/a	28	33.83
342	99-RDD-0379	674822.44	5358805.37	0.10	<1	<1	2.2	23.1	15.20	71	36.2	5.13	3.4	2.9	82	13.57
343	99-RDD-0381	675268.05	5357134.30	0.11	2	<1	1.7	27.8	8.30	53	68.4	4.93	2.2	1.8	78	30.41
344	99-RDD-0382	673698.02	5356295.94	0.06	2	1	<0.9	16.9	5.41	23	26.0	4.41	1.2	3.5	63	56.87
348	99-RDD-0386	674438.58	5340704.37	0.23	5	<1	2.9	46.8	15.66	74	27.8	6.00	3.9	4.5	123	41.86
349	99-RDD-0387	675069.00	5339130.00	0.12	3	<1	2.7	39.0	7.35	52	27.7	3.15	2.9	4.7	62	41.07
350	99-RDD-0388	674425.00	5339280.00	0.14	4	<1	2.4	36.8	9.95	70	26.5	5.65	4.0	4.8	72	35.55
351	99-RDD-0389	675069.00	5338250.00	0.15	3	<1	3.1	33.8	8.17	54	20.2	6.79	2.4	4.6	68	40.17
352	99-RDD-0391	674420.08	5338634.90	0.15	2	<1	2.7	42.5	8.19	67	25.1	5.31	3.4	4.2	77	38.65
353	99-RDD-0392	674007.00	5339050.00	0.12	2	6	2.2	41.9	8.32	69	34.7	2.84	3.4	4.0	68	41.22
354	99-RDD-0393	672381.00	5336800.00	0.14	2	2	2.0	26.1	7.57	47	24.4	3.36	2.4	4.4	70	49.46
355	99-RDD-0394	672093.41	5335054.87	0.33	1	1	2.6	47.2	5.05	61	23.0	6.61	4.0	6.7	39	53.13
356	99-RDD-0395	669813.28	5332970.81	0.17	2	2	2.2	25.3	5.08	31	14.7	7.68	2.8	4.0	83	53.46
357	99-RDD-0396	669098.00	5331870.00	0.12	2	3	2.7	34.4	5.12	27	12.0	4.19	4.9	21.6	53	59.98
358	99-RDD-0397	668743.00	5331410.00	0.06	2	<1	1.6	23.7	3.69	18	10.2	3.26	2.2	2.3	50	55.37
359	99-RDD-0398	668405.00	5331410.00	0.11	5	2	2.0	43.9	6.02	36	14.2	3.85	5.3	3.9	59	51.61
360	99-RDD-0399	667826.00	5331610.00	0.12	4	<1	2.2	44.6	6.26	50	21.1	6.77	3.8	3.8	63	44.03
361	99-RDD-0401	667172.79	5330619.77	0.18	7	2	4.4	110.3	16.61	57	61.4	6.94	7.1	4.2	141	26.49
362	99-RDD-0402	666168.00	5332600.00	0.09	2	<1	2.1	30.3	4.11	30	14.1	2.66	3.1	2.7	58	54.16
363	99-RDD-0403	666554.00	5332930.00	0.12	3	2	2.3	34.4	7.16	48	19.3	4.19	3.6	4.2	78	48.75
364	99-RDD-0404	671367.00	5337670.00	0.07	5	2	1.8	31.0	7.82	39	20.8	8.56	4.7	3.4	58	59.16
365	99-RDD-0405	672221.31	5338183.04	0.10	3	2	2.3	37.2	6.27	51	27.6	3.48	3.5	3.5	55	45.74
367	99-RDD-0407	671449.47	5356659.49	0.06	2	<1	1.9	23.6	11.97	63	40.4	4.63	3.3	2.9	92	19.17
368	99-RDD-0408	672574.00	5364020.00	0.17	3	<1	3.1	38.0	28.59	54	24.0	5.76	2.8	3.7	70	40.81
369	99-RDD-0409	672941.62	5366205.80	0.15	3	1	2.4	48.7	19.74	50	25.8	5.66	2.5	2.0	83	45.59
370	99-RDD-0411	674071.00	5369510.00	0.09	1	<1	1.7	48.7	2.43	17	23.0	4.25	1.5	3.1	29	41.02
371	99-RDD-0412	674238.96	5370585.59	0.18	2	<1	2.1	38.5	7.00	53	38.5	4.36	2.5	2.8	65	47.14
372	99-RDD-0413	675336.11	5371876.76	0.12	3	1	2.3	40.4	8.89	62	39.4	4.50	2.6	4.8	72	40.96
373	99-RDD-0414	676711.00	5374620.00	0.18	1	<1	2.1	66.0	7.39	51	30.7	4.98	3.2	3.2	71	39.48
374	99-RDD-0415	684930.11	5387544.34	0.06	4	<1	2.6	70.8	7.81	31	36.3	3.17	5.8	3.5	72	54.94
375	99-RDD-0416	686609.38	5388535.69	0.11	3	3	3.0	56.6	13.42	59	39.1	5.07	4.7	3.4	123	34.83
376	99-RDD-0417	688123.15	5389119.27	0.08	2	<1	1.8	49.6	11.78	46	33.1	3.43	4.9	3.6	87	23.10
377	99-RDD-0418	683668.82	5389713.50	0.10	2	<1	n/a	30.7	5.80	19	16.2	3.14	n/a	n/a	91	64.15
378	99-RDD-0419	681275.00	5384800.00	0.08	4	3	2.3	54.0	6.72	26	22.9	3.86	2.5	2.2	75	47.21
379	99-RDD-0421	681452.00	5379860.00	0.14	<1	<1	11.5	35.1	6.60	56	28.1	5.16	36.7	34.7	58	18.45
380	99-RDD-0422	677170.00	5376770.00	0.12	2	<1	2.2	76.0	7.71	40	43.1	3.65	3.0	2.7	90	54.44
381	99-RDD-0423	674087.00	5372890.00	0.16	3	2	1.9	39.1	7.13	48	22.9	8.00	2.5	2.2	83	35.17
382	99-RDD-0424	672106.40	5368010.22	0.12	1	2	1.2	24.8	3.82	35	21.4	3.54	1.7	2.0	48	49.67
383	99-RDD-0425	671432.00	5362550.00	0.17	<1	<1	1.7	33.4	5.74	39	22.7	3.90	2.2	2.3	52	41.71
384	99-RDD-0426	670799.09	5358708.37	0.11	2	2	2.2	43.8	5.83	49	29.6	4.55	2.9	2.5	72	50.00
385	99-RDD-0427	669613.00	5353890.00	0.12	2	2	2.7	47.3	7.27	35	21.6	3.95	2.5	2.3	62	56.40
387	99-RDD-0429	668180.00	5344570.00	0.09	3	<1	2.3	85.7	9.52	59	58.4	7.54	5.1	5.8	63	32.86
388	99-RDD-0431	669564.00	5341720.00	0.13	2	<1	2.3	35.6	12.32	60	30.5	4.48	3.6	3.7	95	40.08
390	99-RDD-0433	670353.00	5340760.00	0.12	3	1	1.8	28.3	7.43	54	24.2	3.81	4.8	3.2	59	42.73
391	99-RDD-0434	668808.00	5340000.00	0.09	3	1	1.4	30.6	7.85	45	25.1	2.94	3.5	2.2	73	43.95
392	99-RDD-0435	667955.00	5339840.00	0.08	3	1	1.1	23.8	5.77	43	22.3	2.81	3.1	1.9	54	42.96
393	99-RDD-0436	666973.00	5337760.00	0.13	3	<1	1.7	31.7	10.50	63	34.0	5.32	3.3	2.3	79	39.86
394	99-RDD-0437	666635.00	5338200.00	0.11	2	<1	1.3	29.2	8.83	48	29.4	3.48	2.8	2.2	74	46.40
395	99-RDD-0438	666619.00	5337620.00	0.13	2	<1	1.3	26.8	6.38	38	24.7	3.48	2.2	1.9	62	50.28
396	99-RDD-0439	665959.00	5337470.00	0.10	3	1	4.9	25.0	9.93	37	22.4	3.54	1.9	2.1	70	53.94
397	99-RDD-0441	666989.00	5335410.00	0.13	3	2	2.3	29.6	10.16	57	21.1	3.99	3.2	2.3	69	37.72
398	99-RDD-0442	665894.00	5335270.00	0.13	3	1	2.2	30.5	30.30	58	25.5	3.22	3.1	2.3	123	29.40
399	99-RDD-0443	668344.41	5335928.54	0.10	2	1	2.3	36.5	7.49	38	22.2	2.94	3.0	2.3	52	36.78
400	99-RDD-0444	667987.00	5336600.00	0.10	3	<1	2.6	33.5	6.30	37	21.4	2.41	3.5	2.3	57	50.31
401	99-RDD-0445	669049.00	5336880.00	0.10	2	3	2.0	30.2	7.82	41	23.7	3.07	3.2	2.3	67	46.52
402	99-RDD-0446	668872.00	5337940.00	0.07	3	2	2.0	25.8	8.20	42	26.0	5.27	2.7	2.6	79	45.68
403	99-RDD-0447	668148.00	5337720.00	0.14	3	1	2.7	27.0	7.87	49	27.6	4.98	3.4	2.4	64	41.17
404	99-RDD-0448	669419.00	5338360.00	0.05	4	4	2.7	25.2	8.62	31	27.4	4.89	3.8	2.7	84	52.24
405	99-RDD-0449	670417.00	5339070.00	0.06	1	1	2.2	30.5	2.12	17	10.5	2.26	2.2	1.7	46	61.62
406	99-RDD-0451	671086.11	5339246.58	0.11	3	1	3.9	36.2	8.04	55	20.8	7.04	4.0	2.5	97	45.90

Site	Sample #	Easting	Northing	Ag	As	Au	Au	Cu	Co	Cr	Ni	Pb	Pd	Pt	Zn	LOI
		NAD83	Method---------->	ICP-MS	INAA	INAA	FA	ICP-MS	ICP-MS	ICP-OES	ICP-MS	ICP-MS	FA	FA	ICP-MS	Grav.
		UTM	Units---------->	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	%
		Zone 18	Detection limit-->	0.02	1	1	0.9	0.5	0.05	4	0.5	0.05	0.9	0.5	1	0.01
407	99-RDD-0452	671528.57	5339651.99	0.10	3	4	2.6	36.0	9.45	62	24.2	3.50	3.6	2.3	94	41.31
408	99-RDD-0453	671640.34	5340693.87	0.06	2	1	2.0	27.0	4.79	32	19.1	2.54	2.7	2.3	46	40.90
409	99-RDD-0454	667430.90	5343475.67	0.10	2	5	3.5	47.0	13.86	74	49.2	5.70	4.6	3.8	91	28.69
410	99-RDD-0455	667407.00	5342660.00	0.10	3	<1	n/a	34.5	5.45	34	19.1	3.49	n/a	n/a	170	63.88
411	99-RDD-0456	666232.00	5344120.00	0.10	2	1	2.7	35.6	5.44	38	20.6	3.67	2.8	2.1	72	56.82
413	99-RDD-0458	667697.00	5348070.00	0.07	2	2	1.8	29.8	8.77	31	20.4	3.35	2.6	2.2	70	52.73
414	99-RDD-0459	670353.00	5349450.00	0.09	1	1	2.8	48.7	12.58	76	49.2	5.95	4.1	3.6	86	25.54
415	99-RDD-0461	671335.00	5350040.00	0.10	2	<1	7.9	66.9	11.63	67	42.7	6.55	4.2	3.9	72	28.35
416	99-RDD-0462	670144.00	5350190.00	0.12	2	<1	n/a	49.5	10.29	69	39.6	7.18	n/a	n/a	70	29.54
417	99-RDD-0463	671544.00	5351530.00	0.12	2	<1	5.0	77.4	5.26	24	22.4	4.16	2.4	2.2	80	65.77
418	99-RDD-0464	670836.00	5351490.00	0.16	2	<1	3.5	62.6	9.85	54	30.4	4.78	3.0	3.0	84	44.00
419	99-RDD-0465	670224.00	5351990.00	0.13	2	1	3.5	39.4	5.24	34	21.4	4.00	2.5	2.8	62	65.31
420	99-RDD-0466	671780.79	5360229.24	0.08	1	1	3.3	33.2	10.18	62	50.2	4.18	2.9	3.4	98	25.30
421	99-RDD-0467	670369.00	5368330.00	0.10	2	2	6.5	27.8	4.93	25	17.6	5.36	1.7	1.6	54	41.80
422	99-RDD-0468	671995.00	5370460.00	0.16	2	2	6.5	51.4	7.19	44	27.1	4.16	2.2	2.2	83	44.64
423	99-RDD-0469	672011.00	5370860.00	0.18	1	2	5.0	54.9	6.78	43	25.6	3.68	2.0	2.6	82	46.88
424	99-RDD-0471	673025.00	5370750.00	0.10	1	3	3.4	38.6	9.76	45	27.1	5.16	2.6	3.2	79	27.42
425	99-RDD-0472	676751.00	5378410.00	0.07	2	<1	2.9	52.6	4.75	23	24.1	3.10	2.7	2.1	58	48.66
426	99-RDD-0473	679372.11	5381554.76	0.08	3	6	8.0	42.6	5.22	37	14.9	3.32	8.7	4.0	94	65.76
427	99-RDD-0474	678763.00	5381470.00	0.16	7	2	n/a	44.1	3.48	29	9.6	3.53	n/a	n/a	46	69.32
428	99-RDD-0475	679939.00	5383510.00	0.10	1	3	2.6	29.7	2.16	10	11.0	3.23	2.3	1.2	64	70.08
429	99-RDD-0476	679440.00	5383360.00	0.08	1	5	3.5	72.3	4.79	20	17.6	2.42	2.1	2.2	64	49.30
430	99-RDD-0477	681817.23	5385714.56	0.13	2	2	3.7	53.9	4.68	32	21.9	4.66	3.5	1.8	90	47.96
431	99-RDD-0478	683641.00	5389210.00	0.06	3	1	n/a	20.3	4.11	24	14.0	3.10	n/a	n/a	60	59.91
432	99-RDD-0479	695488.00	5388710.00	0.10	1	6	n/a	313.5	2.97	10	25.2	1.71	n/a	n/a	40	56.29
433	99-RDD-0481	696631.00	5389790.00	0.07	1	1	5.3	37.4	2.71	7	13.9	4.11	2.9	1.9	43	55.22
434	99-RDD-0482	696277.00	5389580.00	0.05	1	<1	2.7	73.8	2.41	5	19.1	4.02	3.9	2.0	82	56.12
435	99-RDD-0483	697918.00	5388560.00	0.10	2	<1	4.8	75.5	6.64	26	22.5	3.51	4.6	2.6	76	39.16
436	99-RDD-0484	698909.61	5389624.65	0.06	2	1	3.4	41.0	2.54	14	18.0	3.38	4.0	1.6	34	52.55
437	99-RDD-0485	699602.73	5390478.65	0.08	1	2	4.4	34.7	1.69	8	13.2	2.26	2.2	1.4	31	46.99
438	99-RDD-0486	699721.00	5388790.00	0.04	1	<1	2.3	16.3	2.97	7	14.5	3.37	1.5	1.3	37	44.74
439	99-RDD-0487	701025.00	5387260.00	0.10	2	3	n/a	34.7	6.43	18	15.2	3.36	n/a	n/a	75	56.28
440	99-RDD-0488	700945.00	5388110.00	0.10	2	<1	2.5	31.2	4.94	7	13.3	3.04	2.1	1.9	144	65.73
441	99-RDD-0489	701555.49	5385080.98	0.10	16	<1	3.7	49.8	6.86	30	27.4	3.69	5.9	2.2	83	65.78
442	99-RDD-0491	701299.00	5384060.00	0.05	4	<1	n/a	17.9	2.64	10	7.9	2.17	n/a	n/a	41	66.80
443	99-RDD-0492	703488.00	5385070.00	0.06	3	1	2.8	29.5	5.13	23	17.0	3.64	3.3	2.4	48	42.90
444	99-RDD-0493	707673.00	5384910.00	<0.02	2	1	2.3	17.9	2.44	6	15.9	2.33	1.2	1.2	51	43.12
445	99-RDD-0494	709202.00	5384110.00	0.14	2	3	3.0	56.2	7.01	31	25.3	2.97	3.0	2.1	99	42.16
446	99-RDD-0495	709765.18	5385065.66	0.04	1	<1	1.4	16.5	2.13	5	11.5	1.92	1.3	1.3	37	42.15
447	99-RDD-0496	711013.48	5384033.08	0.15	5	<1	3.3	59.4	9.54	26	25.9	4.50	3.3	2.2	141	50.57
448	99-RDD-0497	712116.00	5383900.00	0.06	3	1	n/a	26.8	3.09	10	16.0	2.70	n/a	n/a	57	66.49
449	99-RDD-0498	713355.00	5383910.00	0.10	9	1	2.8	53.0	7.54	35	43.1	5.45	2.4	1.8	118	56.49
450	99-RDD-0499	712792.00	5384930.00	0.24	6	1	3.3	64.6	8.00	25	32.6	3.58	6.3	2.8	92	57.39
451	99-RDD-0501	711922.00	5385250.00	0.10	5	2	2.2	57.8	6.93	22	28.2	3.14	3.6	2.5	96	55.25
452	99-RDD-0502	711359.00	5385760.00	0.07	3	1	n/a	37.9	4.59	13	14.0	2.14	n/a	n/a	65	54.92
453	99-RDD-0503	716801.88	5388144.81	0.03	3	2	1.4	19.2	2.27	9	9.8	3.41	2.3	2.0	51	59.28
454	99-RDD-0504	718117.97	5387460.57	0.03	11	<1	1.4	13.1	2.01	5	9.5	3.82	1.8	1.5	42	51.54
455	99-RDD-0505	713999.00	5382320.00	0.07	3	<1	n/a	51.3	4.94	36	28.3	1.95	n/a	n/a	57	65.75
456	99-RDD-0506	708606.00	5382110.00	0.05	3	<1	2.8	42.2	6.14	27	35.0	4.55	2.7	2.0	64	45.92
457	99-RDD-0507	707082.44	5381785.09	0.14	5	3	3.3	58.0	14.02	52	37.0	6.45	3.8	2.9	129	35.80
458	99-RDD-0508	706673.90	5381182.09	0.12	2	3	2.6	72.4	8.91	32	26.3	4.48	3.1	2.2	111	44.93
460	99-RDD-0511	708678.17	5375379.82	0.09	2	2	2.3	28.5	11.16	44	31.6	3.70	2.6	2.3	99	36.22
461	99-RDD-0512	705757.00	5376250.00	0.16	3	3	2.6	48.6	11.66	60	42.3	5.04	2.9	2.4	98	27.16
462	99-RDD-0513	704429.00	5376620.00	0.16	5	1	2.5	102.2	18.74	61	45.6	6.61	3.4	2.5	138	32.84
463	99-RDD-0514	705035.09	5378317.50	0.04	2	1	2.0	56.8	4.75	10	21.9	3.24	1.9	1.5	38	44.85
464	99-RDD-0515	702943.33	5378242.76	0.14	3	3	2.9	n/a	n/a	40	n/a	n/a	4.4	2.4	n/a	51.43
465	99-RDD-0516	703688.43	5379180.31	0.18	2	2	2.3	66.7	3.69	13	28.6	4.12	2.6	1.7	71	58.52
466	99-RDD-0517	702461.18	5381364.99	0.06	10	1	n/a	97.1	3.93	8	17.2	1.48	n/a	n/a	172	71.05
467	99-RDD-0518	701749.00	5381640.00	0.06	4	<1	2.4	53.7	4.26	5	14.0	2.18	2.3	1.8	204	70.86
468	99-RDD-0519	701299.00	5381260.00	0.03	3	<1	n/a	22.3	2.22	7	7.8	4.44	n/a	n/a	56	73.22
469	99-RDD-0521	703504.00	5381880.00	0.06	2	2	5.9	56.0	6.25	30	26.3	3.68	3.2	2.8	62	48.90

Site	Sample #	Easting	Northing	Ag	As	Au	Au	Cu	Co	Cr	Ni	Pb	Pd	Pt	Zn	LOI
		NAD83	Method---------->	ICP-MS	INAA	INAA	FA	ICP-MS	ICP-MS	ICP-OES	ICP-MS	ICP-MS	FA	FA	ICP-MS	Grav.
		UTM	Units---------->	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	%
		Zone 18	Detection limit-->	0.02	1	1	0.9	0.5	0.05	4	0.5	0.05	0.9	0.5	1	0.01
470	99-RDD-0522	702828.00	5381800.00	0.05	3	2	n/a	61.1	3.75	11	25.4	6.13	2.7	1.9	103	54.89
471	99-RDD-0523	704647.00	5381640.00	0.12	3	3	3.9	54.4	7.65	50	29.1	5.90	3.7	2.9	83	44.20
472	99-RDD-0524	705339.00	5382370.00	0.09	2	<1	n/a	50.0	7.55	38	29.2	3.52	3.5	2.3	73	48.48
473	99-RDD-0525	705314.63	5383240.00	0.11	3	<1	6.4	37.2	2.53	13	14.0	8.42	2.7	1.1	62	60.69
474	99-RDD-0526	704014.18	5383438.60	0.04	1	1	3.3	16.4	2.44	5	11.2	3.68	1.6	2.0	46	37.49
475	99-RDD-0527	703279.00	5383570.00	0.04	2	<1	3.4	19.8	3.06	9	14.2	2.57	2.2	1.6	49	46.51
476	99-RDD-0528	702125.84	5383118.13	0.06	3	2	5.8	46.1	3.91	12	15.1	2.22	3.2	1.3	70	58.58
477	99-RDD-0529	701444.00	5382910.00	0.06	4	1	4.2	35.5	5.34	15	19.7	3.43	3.4	2.3	73	54.71
478	99-RDD-0531	701347.00	5382240.00	0.07	4	1	3.4	53.7	4.19	19	33.3	2.95	4.3	2.0	66	60.00
479	99-RDD-0532	700172.00	5382270.00	0.06	4	1	2.7	52.5	4.01	13	21.2	2.65	2.6	1.9	76	49.55
480	99-RDD-0533	699491.04	5382162.05	0.07	2	<1	n/a	54.7	2.27	4	13.8	1.56	n/a	n/a	143	75.81
481	99-RDD-0534	700220.00	5383380.00	0.05	4	<1	7.4	37.2	3.20	11	15.2	4.16	1.0	1.0	61	55.83
482	99-RDD-0535	699303.00	5382950.00	0.08	7	2	4.1	73.9	7.36	29	35.8	3.09	1.7	1.7	77	59.19
483	99-RDD-0536	699190.00	5384780.00	0.08	3	<1	n/a	30.4	6.14	13	15.5	3.21	n/a	n/a	99	69.38
484	99-RDD-0537	698562.00	5386210.00	0.08	5	5	n/a	32.3	3.76	13	12.4	12.49	n/a	n/a	61	66.30
485	99-RDD-0538	698063.00	5387120.00	0.08	3	<1	n/a	54.3	4.04	11	13.7	3.65	n/a	n/a	73	73.46
486	99-RDD-0539	696969.00	5386870.00	0.10	1	<1	n/a	115.6	3.85	10	12.8	2.18	n/a	n/a	83	62.65
487	99-RDD-0541	695864.18	5386920.29	0.07	2	2	n/a	99.1	4.63	15	26.7	2.36	n/a	n/a	113	80.52
488	99-RDD-0542	696808.00	5388190.00	0.13	3	4	4.3	122.1	6.15	22	23.9	2.79	4.9	2.6	57	42.59
490	99-RDD-0544	694651.00	5388920.00	0.09	4	4	n/a	185.7	3.70	11	147.3	2.72	n/a	n/a	39	73.84
492	99-RDD-0546	684220.00	5393730.00	0.13	2	1	1.9	44.1	4.09	19	18.8	3.96	1.9	1.6	68	48.88
493	99-RDD-0547	679375.00	5395100.00	0.04	2	3	1.0	17.0	7.18	20	19.3	2.22	2.1	1.6	54	14.39
495	99-RDD-0549	669864.00	5396480.00	0.10	1	<1	1.6	24.9	2.62	15	9.9	3.36	1.6	1.2	52	46.51
496	99-RDD-0551	664884.00	5397680.00	0.18	3	3	1.3	38.2	5.28	19	14.6	4.65	1.9	1.6	62	50.68
497	99-RDD-0552	660335.00	5396840.00	0.12	1	<1	1.3	24.9	2.96	16	12.4	4.05	1.4	1.3	42	47.08
498	99-RDD-0553	655127.56	5395397.61	0.10	4	2	1.4	27.4	12.66	45	24.8	11.34	1.7	1.6	66	35.93
499	99-RDD-0554	650680.17	5395144.78	0.11	2	1	1.3	30.2	11.37	46	29.6	8.36	1.6	1.6	81	40.82
500	99-RDD-0555	646542.57	5394686.67	0.08	4	3	1.4	21.3	27.82	48	28.2	7.98	2.6	2.0	150	22.22
501	99-RDD-0556	645421.43	5394077.40	0.09	3	4	1.6	27.8	22.41	56	32.0	4.69	2.6	2.1	123	19.64
503	99-RDD-0558	641566.00	5394990.00	0.12	1	2	1.8	31.5	4.15	23	17.1	3.03	2.1	1.9	46	32.66
504	99-RDD-0559	639907.00	5394580.00	0.06	<1	3	1.5	27.0	7.82	29	26.1	3.94	2.0	1.6	68	31.78
505	99-RDD-0561	639238.00	5393870.00	0.07	2	1	1.4	25.1	9.26	39	33.6	4.74	2.1	1.8	88	30.58
506	99-RDD-0562	636737.00	5394070.00	0.13	7	<1	1.9	29.9	14.56	45	27.1	11.72	2.3	1.9	93	26.99
507	99-RDD-0563	634974.00	5393380.00	0.09	3	<1	1.7	26.5	9.00	25	23.2	4.00	2.5	1.8	69	61.73
508	99-RDD-0564	634316.00	5393500.00	0.09	2	2	1.6	22.0	6.77	33	21.7	4.84	2.6	2.5	67	42.30
509	99-RDD-0565	631987.00	5396070.00	0.15	3	2	1.7	26.9	8.14	26	20.1	4.70	1.7	1.9	90	43.03
511	99-RDD-0567	629119.24	5396435.75	0.11	3	1	1.6	32.8	8.97	40	27.0	5.80	1.7	2.4	73	44.94
512	99-RDD-0568	628828.00	5395490.00	0.13	2	2	1.6	22.3	4.86	29	19.0	3.31	1.5	1.9	63	44.36
513	99-RDD-0569	627868.00	5395190.00	0.13	2	<1	1.6	31.0	2.74	16	13.7	4.02	1.3	2.0	62	59.10
514	99-RDD-0571	627315.00	5395480.00	0.15	3	<1	1.7	41.2	10.53	37	26.1	6.66	1.6	2.0	105	53.06
515	99-RDD-0572	627312.17	5394058.85	0.14	3	8	2.4	24.4	10.16	39	22.3	6.43	2.0	2.5	75	33.63
516	99-RDD-0573	626354.00	5393150.00	0.12	3	2	1.5	18.8	7.94	34	23.9	5.27	1.7	2.2	73	30.12
517	99-RDD-0574	623038.00	5393490.00	0.11	2	<1	1.3	23.2	4.48	29	20.4	3.58	1.8	1.8	55	39.74
518	99-RDD-0575	622104.00	5393610.00	0.18	3	<1	1.4	41.4	13.78	57	35.0	5.11	2.1	2.3	115	40.08
519	99-RDD-0576	622391.73	5392132.30	0.14	2	<1	1.7	32.9	16.72	53	30.9	8.35	2.0	2.2	106	39.00
520	99-RDD-0577	620591.00	5392620.00	0.07	2	<1	1.6	20.9	11.00	41	27.8	5.09	2.0	2.4	67	14.26
521	99-RDD-0578	619086.76	5392523.57	0.07	2	1	1.4	28.8	1.99	9	8.6	1.92	1.6	1.8	76	71.87
522	99-RDD-0579	615629.00	5391320.00	0.21	4	<1	1.7	30.9	6.82	33	19.1	9.58	1.7	1.6	62	46.52
523	99-RDD-0581	616252.62	5390151.27	0.11	3	1	1.7	25.2	9.97	46	27.1	6.59	1.7	1.9	80	30.03
524	99-RDD-0582	617340.00	5390200.00	0.18	10	<1	2.2	33.4	19.40	43	25.4	36.20	1.8	2.0	77	37.05
525	99-RDD-0583	617695.00	5391320.00	0.07	3	2	1.8	21.1	7.65	30	20.6	4.63	1.7	2.1	90	61.05
526	99-RDD-0584	620472.00	5391530.00	0.06	2	<1	1.7	23.3	10.58	40	32.5	5.79	2.2	2.3	74	33.88
527	99-RDD-0585	622354.00	5395120.00	0.08	3	1	1.1	22.4	8.23	41	32.6	6.15	1.5	2.9	79	27.83
528	99-RDD-0586	624354.00	5395420.00	0.05	3	1	<0.9	8.7	3.69	8	9.7	3.84	1.1	1.5	64	53.35
529	99-RDD-0587	630921.00	5397660.00	0.22	3	<1	1.1	34.2	3.61	24	16.3	4.59	1.4	2.4	53	46.73
530	99-RDD-0588	630302.00	5397500.00	0.17	1	3	1.3	30.7	3.22	21	16.3	4.89	1.5	2.2	67	46.41
531	99-RDD-0589	639453.18	5395943.63	0.09	2	<1	1.2	27.8	7.66	38	20.8	5.28	1.6	2.6	74	49.61
532	99-RDD-0591	645724.00	5396210.00	0.09	2	<1	n/a	27.6	5.64	18	19.2	3.89	n/a	n/a	53	53.93
533	99-RDD-0592	645671.00	5396890.00	0.10	2	3	1.6	30.5	5.24	20	22.9	4.26	1.6	2.0	57	49.74
534	99-RDD-0593	646211.00	5395830.00	0.08	2	3	n/a	33.8	9.06	25	32.6	2.88	n/a	n/a	60	56.31
535	99-RDD-0594	654251.00	5395070.00	0.06	1	1	1.2	15.9	2.88	24	13.9	4.14	1.9	2.5	33	43.22

Site	Sample #	Easting	Northing	Ag	As	Au	Au	Cu	Co	Cr	Ni	Pb	Pd	Pt	Zn	LOI
		NAD83	Method---------->	ICP-MS	INAA	INAA	FA	ICP-MS	ICP-MS	ICP-OES	ICP-MS	ICP-MS	FA	FA	ICP-MS	Grav.
		UTM	Units---------->	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	%
		Zone 18	Detection limit-->	0.02	1	1	0.9	0.5	0.05	4	0.5	0.05	0.9	0.5	1	0.01
536	99-RDD-0595	658360.00	5395830.00	0.08	2	<1	1.6	21.4	13.27	35	19.4	4.86	2.2	2.9	132	27.35
537	99-RDD-0596	667319.00	5393630.00	0.09	1	<1	1.1	22.3	2.34	21	12.0	3.11	1.8	2.0	41	43.59
538	99-RDD-0597	675319.00	5394410.00	0.10	4	<1	1.5	35.5	10.17	43	33.6	6.98	2.6	2.8	110	35.38
539	99-RDD-0598	675721.00	5394210.00	0.09	3	2	1.2	27.0	7.26	30	26.0	4.24	1.8	2.0	71	35.34
540	99-RDD-0599	681693.00	5392640.00	0.12	4	2	2.0	30.3	11.49	41	27.3	10.06	2.3	2.3	111	37.94
541	99-RDD-0601	683609.00	5393050.00	0.08	1	3	1.9	33.5	5.21	23	19.7	2.86	2.0	2.1	45	41.05
542	99-RDD-0602	683898.00	5389950.00	0.04	3	<1	1.9	21.0	4.04	21	16.1	4.48	2.1	2.2	67	58.73
543	99-RDD-0603	680341.00	5385250.00	0.15	3	8	6.2	83.4	7.22	28	22.5	3.44	2.7	3.0	129	63.50
544	99-RDD-0604	680937.00	5379390.00	0.17	5	2	3.2	78.1	7.51	71	36.0	13.43	4.4	3.8	84	30.84
545	99-RDD-0605	677170.00	5375930.00	0.46	2	2	4.3	109.0	8.78	32	27.8	4.23	4.4	2.9	72	53.54
546	99-RDD-0606	673011.66	5372396.73	0.17	2	1	2.1	37.7	3.44	24	13.8	3.72	2.0	2.3	50	51.71
547	99-RDD-0607	670498.00	5366040.00	0.12	2	2	2.6	27.9	3.92	41	24.8	7.00	1.8	2.3	36	43.06
548	99-RDD-0608	669886.00	5366290.00	0.14	1	2	2.7	30.2	3.87	30	18.1	3.36	1.8	2.0	50	51.35
549	99-RDD-0609	668421.00	5360720.00	0.11	1	2	4.4	49.2	10.81	65	33.6	5.44	2.7	3.1	74	20.11
550	99-RDD-0611	666071.00	5356180.00	0.14	3	5	n/a	38.2	6.27	20	19.1	4.23	n/a	n/a	77	66.04
551	99-RDD-0612	664519.25	5352418.63	0.23	1	2	4.1	112.1	10.34	24	29.6	3.52	3.2	2.8	63	46.13
554	99-RDD-0615	666216.00	5347290.00	0.10	1	2	1.8	27.5	5.83	40	25.1	4.44	1.8	2.3	68	37.62
555	99-RDD-0616	667198.00	5346730.00	0.14	<1	<1	1.8	27.7	5.87	38	25.5	4.01	2.3	2.5	59	38.87
556	99-RDD-0617	667649.00	5346710.00	0.20	2	2	3.1	40.9	11.36	54	34.3	6.03	2.6	2.6	101	42.32
557	99-RDD-0618	664236.00	5343570.00	0.17	2	1	4.2	47.3	3.30	25	15.1	3.44	2.2	2.3	81	56.47
559	99-RDD-0621	663183.97	5342952.15	0.09	2	2	3.7	25.4	7.76	27	19.6	4.32	2.1	2.3	87	57.84
560	99-RDD-0622	662836.00	5342130.00	0.11	2	1	2.6	28.3	9.54	43	22.3	4.19	2.3	2.8	84	49.71
561	99-RDD-0623	663512.00	5341550.00	0.13	1	4	2.7	27.3	8.52	46	26.5	5.98	2.3	2.5	74	40.76
562	99-RDD-0624	664359.53	5341740.19	0.06	1	1	1.3	21.1	2.99	12	12.0	3.26	1.7	1.7	26	66.06
563	99-RDD-0625	665492.00	5341030.00	0.13	2	4	4.7	36.8	9.96	51	33.6	6.39	3.2	3.2	81	36.79
564	99-RDD-0626	666003.60	5340338.91	0.14	2	2	1.7	32.8	8.51	50	27.1	5.69	2.8	2.7	76	35.33
565	99-RDD-0627	665290.19	5339842.85	0.15	3	<1	2.5	40.8	11.46	53	30.8	6.45	3.0	2.7	87	35.25
566	99-RDD-0628	664800.00	5339290.00	0.08	3	1	1.8	27.6	7.32	43	27.4	4.36	2.4	2.0	47	39.72
567	99-RDD-0629	663641.00	5339680.00	0.15	2	3	4.2	26.8	4.57	33	17.5	5.82	1.7	1.6	54	46.37
568	99-RDD-0631	663390.80	5338958.09	0.13	3	1	2.5	53.2	10.31	51	28.1	4.73	2.6	2.0	88	32.28
569	99-RDD-0632	664687.00	5338790.00	0.06	3	<1	1.6	20.7	5.12	47	19.0	2.38	2.4	1.6	39	39.61
570	99-RDD-0633	664494.00	5339710.00	0.14	2	<1	2.1	34.4	5.06	32	19.7	3.96	1.8	1.5	59	60.71
571	99-RDD-0634	662675.00	5340420.00	0.14	1	2	2.3	38.0	10.11	50	30.2	5.15	2.4	2.0	87	32.61
572	99-RDD-0635	661902.00	5340340.00	0.18	3	2	2.7	64.6	10.44	64	37.2	5.02	3.0	2.1	98	28.53
573	99-RDD-0636	661371.00	5339530.00	0.16	7	5	3.1	69.1	18.48	76	43.4	6.24	3.5	2.3	137	29.90
574	99-RDD-0637	662385.00	5341390.00	0.08	1	2	3.2	22.2	10.75	45	25.4	4.41	2.2	2.4	72	16.15
575	99-RDD-0638	662047.00	5342350.00	0.13	4	2	2.5	39.4	10.47	58	32.6	7.19	2.7	2.3	88	37.08
577	99-RDD-0641	665653.00	5349390.00	0.18	3	2	2.4	36.7	8.42	46	28.3	5.89	2.9	2.4	73	46.48
578	99-RDD-0642	664204.00	5351930.00	0.25	2	2	n/a	89.8	12.15	26	18.8	3.45	n/a	n/a	108	59.58
579	99-RDD-0643	665038.74	5353323.67	0.20	2	1	4.7	106.9	10.98	34	26.0	3.28	3.7	2.2	85	56.03
580	99-RDD-0644	665556.00	5356450.00	0.13	2	2	3.2	44.9	7.59	16	19.3	3.20	1.9	1.5	82	66.21
581	99-RDD-0645	665315.00	5357050.00	0.08	2	3	n/a	54.1	3.10	12	14.3	1.23	n/a	n/a	44	68.90
582	99-RDD-0646	665267.00	5358420.00	0.19	3	3	n/a	123.1	7.90	21	15.4	5.92	n/a	n/a	59	52.61
583	99-RDD-0647	666828.00	5360090.00	0.28	2	7	4.6	123.4	5.81	33	22.7	5.25	2.2	1.8	96	54.00
584	99-RDD-0648	667198.00	5361440.00	0.31	3	4	4.9	87.5	6.90	35	22.0	8.68	2.0	1.4	93	45.86
585	99-RDD-0649	670144.00	5363500.00	0.18	2	1	n/a	65.4	7.37	36	28.7	2.97	n/a	n/a	61	40.63
586	99-RDD-0651	669693.00	5363280.00	0.17	3	2	3.6	62.1	10.66	47	35.5	5.28	3.4	2.9	94	38.14
587	99-RDD-0652	668132.00	5365140.00	0.21	2	3	2.8	36.3	9.77	43	26.2	4.01	1.9	1.6	80	37.10
588	99-RDD-0653	668759.00	5368380.00	0.17	2	<1	1.0	50.3	8.03	43	24.8	6.02	<0.9	0.9	77	34.67
589	99-RDD-0654	672001.44	5372520.64	0.17	1	1	3.0	40.0	2.34	17	12.5	3.08	1.6	2.2	39	44.79
590	99-RDD-0655	672864.00	5373160.00	0.18	2	2	2.6	39.1	7.54	38	20.4	12.21	2.3	2.9	84	35.61
591	99-RDD-0656	675538.69	5376782.97	0.12	2	1	2.5	66.8	7.61	43	45.8	3.37	2.8	1.9	79	51.86
592	99-RDD-0657	676333.00	5378550.00	0.10	<1	1	2.4	29.1	3.64	12	12.4	2.57	2.2	1.8	94	68.59
593	99-RDD-0658	678993.19	5384437.44	0.24	2	9	8.4	214.6	10.86	34	35.6	5.92	3.3	4.2	134	40.76
594	99-RDD-0659	681959.74	5390137.76	0.11	4	<1	2.2	23.6	7.51	16	17.9	4.78	1.5	1.3	90	53.40
596	99-RDD-0662	684108.00	5390690.00	0.05	2	<1	<0.9	19.2	4.97	9	12.0	3.19	1.5	1.1	66	56.09
597	99-RDD-0663	682820.00	5390820.00	0.10	3	2	5.9	40.9	6.82	23	20.8	4.86	2.9	2.4	83	50.51
598	99-RDD-0664	681339.00	5390700.00	0.09	1	1	1.9	23.6	4.71	13	15.8	3.50	2.0	1.8	51	41.16
599	99-RDD-0665	681484.00	5388930.00	0.13	4	3	n/a	55.8	4.89	14	15.2	12.21	n/a	n/a	59	63.08
600	99-RDD-0666	679273.75	5387796.67	0.29	4	6	4.9	56.1	9.02	29	16.9	4.96	2.5	1.6	138	45.26
601	99-RDD-0667	678217.31	5386917.42	0.18	5	4	3.1	39.7	12.57	24	18.7	3.73	2.7	2.0	113	48.50

Site	Sample #	Easting	Northing	Ag	As	Au	Au	Cu	Co	Cr	Ni	Pb	Pd	Pt	Zn	LOI
		NAD83	Method------->	ICP-MS	INAA	INAA	FA	ICP-MS	ICP-MS	ICP-OES	ICP-MS	ICP-MS	FA	FA	ICP-MS	Grav.
		UTM	Units------->	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	%
		Zone 15	Detection limit-->	0.02	1	1	0.9	0.5	0.05	4	0.5	0.05	0.9	0.5	1	0.01
602	99-RDD-0668	678410.99	5384729.25	0.24	2	11	9.4	248.5	7.06	29	29.1	5.65	3.9	2.3	90	44.98
603	99-RDD-0669	680497.25	5383475.70	0.11	3	5	n/a	33.5	5.41	23	13.9	3.44	n/a	n/a	177	77.98
604	99-RDD-0671	677639.02	5382564.01	0.07	1	1	1.5	17.8	3.16	4	7.6	2.38	1.2	1.0	95	62.68
605	99-RDD-0672	674755.00	5376480.00	0.12	2	2	2.5	42.8	6.22	28	29.8	4.89	1.8	1.4	57	49.97
607	99-RDD-0674	676349.00	5375060.00	0.30	2	4	2.9	70.7	15.85	65	32.0	7.33	2.4	1.6	129	40.79
608	99-RDD-0675	670514.00	5370950.00	0.15	<1	3	2.6	45.2	6.80	48	29.1	4.14	2.3	1.7	74	46.50
609	99-RDD-0676	671206.00	5364520.00	0.20	3	2	2.7	49.7	8.52	46	25.9	5.30	2.4	1.7	71	41.66
610	99-RDD-0677	670369.00	5364370.00	0.12	<1	1	2.0	24.8	6.90	35	21.5	3.17	2.0	1.8	78	25.77
611	99-RDD-0678	669065.00	5363920.00	0.17	3	1	4.3	36.1	7.10	33	21.8	7.48	2.2	1.7	62	56.75
612	99-RDD-0679	668341.00	5361750.00	0.18	2	4	2.5	38.4	8.83	50	19.3	3.34	2.4	1.9	80	34.90
614	99-RDD-0682	667522.50	5358075.02	0.08	2	2	4.0	76.0	11.20	62	44.5	4.31	4.7	5.9	57	24.11
615	99-RDD-0683	664687.00	5357820.00	0.12	1	2	n/a	78.7	6.10	18	13.6	3.32	n/a	n/a	53	66.32
616	99-RDD-0684	664108.00	5356190.00	0.15	2	3	n/a	99.9	11.20	22	23.1	2.55	n/a	n/a	79	59.84
617	99-RDD-0685	663512.00	5354390.00	0.26	2	4	5.1	94.5	7.80	33	21.2	5.26	3.0	2.3	81	43.05
618	99-RDD-0686	664066.78	5352822.31	0.20	5	3	n/a	69.1	8.00	28	19.8	24.45	n/a	n/a	92	58.62
619	99-RDD-0687	662331.77	5352877.01	0.13	3	1	n/a	77.1	6.83	22	18.2	4.50	n/a	n/a	78	62.70
620	99-RDD-0688	661130.00	5352070.00	0.14	2	2	3.7	95.1	8.09	20	20.3	2.89	2.3	1.6	70	49.65
621	99-RDD-0689	660824.00	5352640.00	0.09	2	2	n/a	73.0	5.23	19	21.8	3.44	n/a	n/a	57	64.18
622	99-RDD-0691	659520.00	5351990.00	0.12	1	2	n/a	62.9	4.29	13	10.3	3.10	n/a	n/a	59	64.84
623	99-RDD-0692	657358.84	5349484.21	0.18	5	5	n/a	69.9	10.41	51	45.1	3.03	n/a	n/a	63	57.81
624	99-RDD-0693	656574.00	5349290.00	0.16	2	3	7.1	72.1	11.99	32	23.7	4.05	2.5	2.5	70	53.68
625	99-RDD-0694	656236.00	5349350.00	0.18	2	3	5.5	68.4	10.58	31	21.7	4.81	2.6	2.3	73	51.61
626	99-RDD-0695	655386.43	5349802.41	0.17	3	4	5.3	73.2	10.65	23	21.9	7.46	2.8	2.2	82	51.57
627	99-RDD-0696	654015.00	5348470.00	0.04	1	1	2.7	19.6	3.17	6	14.4	2.79	1.7	3.2	46	55.16
628	99-RDD-0697	651647.69	5347789.60	0.14	2	4	3.4	63.3	7.25	13	19.1	2.26	2.1	2.3	88	62.15
629	99-RDD-0698	651767.65	5348748.75	0.24	6	6	6.6	67.9	34.73	87	43.0	12.14	3.2	2.7	95	48.70
630	99-RDD-0699	652599.00	5348740.00	0.16	2	3	4.2	85.7	9.78	13	18.9	4.14	3.1	2.5	49	49.51
631	99-RDD-0701	654173.49	5350249.79	0.07	2	2	2.8	44.6	7.73	6	12.5	1.74	2.1	1.8	103	65.63
632	99-RDD-0702	657943.00	5351380.00	0.11	3	2	3.9	45.4	3.40	9	10.7	2.83	1.4	1.3	64	75.45
633	99-RDD-0703	657927.00	5351330.00	0.14	2	3	n/a	53.6	5.02	10	11.3	3.06	n/a	n/a	68	62.24
634	99-RDD-0704	658087.00	5352020.00	0.09	2	3	3.5	53.0	3.54	12	12.0	2.10	2.6	2.0	36	66.95
635	99-RDD-0705	658731.00	5352430.00	0.15	3	4	n/a	50.2	4.17	18	13.5	4.42	n/a	n/a	71	68.33
636	99-RDD-0706	659396.75	5352733.76	0.19	2	2	14.0	68.3	11.79	44	28.6	5.01	3.1	2.4	94	36.74
637	99-RDD-0707	660900.87	5352482.87	0.11	2	2	2.5	68.3	5.24	16	20.1	3.34	1.9	1.5	54	61.12
638	99-RDD-0708	661951.00	5354330.00	0.14	2	2	n/a	71.5	7.31	26	19.2	5.36	n/a	n/a	63	51.10
639	99-RDD-0709	663287.00	5356420.00	0.11	2	3	4.1	92.1	5.79	21	27.2	3.06	3.0	1.8	71	74.48
641	99-RDD-0712	666152.00	5361520.00	0.24	3	10	7.6	104.1	9.54	35	26.9	4.10	3.7	2.4	83	44.24
642	99-RDD-0713	665621.00	5361040.00	0.25	2	2	6.8	76.9	4.84	15	12.9	3.92	2.0	1.8	72	50.44
643	99-RDD-0714	669956.17	5370362.37	0.22	2	1	4.6	39.6	12.54	54	29.2	5.67	2.3	2.0	91	35.61
644	99-RDD-0715	680071.48	5378147.83	0.06	2	<1	2.6	64.5	6.54	45	39.1	4.12	3.0	2.4	79	20.48
645	99-RDD-0716	679115.57	5377352.77	0.10	2	1	2.9	78.2	11.70	56	51.8	5.78	4.4	3.3	88	19.58
646	99-RDD-0717	679729.00	5388470.00	0.15	3	1	3.4	33.7	15.01	22	15.3	3.17	2.6	1.9	77	33.21
647	99-RDD-0718	679166.00	5388690.00	0.16	6	2	n/a	62.6	5.92	21	25.4	4.25	n/a	n/a	80	71.17
648	99-RDD-0719	678780.00	5388130.00	0.25	6	3	4.2	54.9	11.49	53	24.4	5.43	3.3	2.1	137	47.84
649	99-RDD-0721	683898.00	5393780.00	0.13	2	4	2.0	45.5	3.30	19	16.9	4.91	2.4	2.2	67	46.89
650	99-RDD-0722	679085.00	5390160.00	0.49	9	2	3.3	127.8	23.95	37	33.4	4.36	2.6	1.6	135	52.29
651	99-RDD-0723	674530.00	5387920.00	0.11	2	<1	n/a	42.5	3.95	13	12.5	3.85	n/a	n/a	67	63.30
652	99-RDD-0724	671149.04	5382872.79	0.11	1	1	n/a	43.5	3.92	16	13.7	3.09	n/a	n/a	66	62.90
654	99-RDD-0726	667617.00	5373100.00	0.18	2	3	3.7	77.4	5.84	39	32.2	3.48	4.3	2.2	93	59.89
655	99-RDD-0727	667552.00	5372850.00	0.20	2	2	3.8	88.7	11.52	157	52.8	6.05	4.7	2.7	114	55.04
656	99-RDD-0728	666739.74	5371362.40	0.35	2	3	6.3	63.4	13.66	60	28.0	8.08	3.6	2.0	102	34.98
657	99-RDD-0729	664974.66	5370433.24	0.21	2	6	4.2	47.9	9.21	51	30.9	5.19	3.2	2.1	98	29.95
658	99-RDD-0731	663045.00	5369380.00	0.40	2	3	5.4	69.8	22.64	56	29.6	9.08	3.6	2.3	115	42.82
659	99-RDD-0732	661242.00	5368890.00	0.41	3	6	9.9	144.2	25.83	75	47.8	8.21	4.4	2.8	125	35.88
660	99-RDD-0733	660421.00	5368830.00	0.20	2	1	7.0	65.9	9.94	30	20.2	3.64	3.3	2.1	83	57.03
661	99-RDD-0734	661111.06	5368125.23	0.33	2	5	5.1	95.0	5.98	32	20.6	8.88	2.5	1.8	97	51.81
662	99-RDD-0735	660373.00	5366800.00	0.26	1	3	10.8	94.4	10.77	47	34.1	4.58	2.9	2.3	88	35.79
663	99-RDD-0736	659456.00	5366240.00	0.26	3	9	8.6	71.8	11.88	67	37.2	6.95	2.6	1.9	119	32.22
664	99-RDD-0737	659391.00	5367200.00	0.14	3	2	6.1	51.1	7.12	44	26.8	5.90	2.4	2.4	75	29.47
665	99-RDD-0738	658307.60	5366383.38	0.41	3	5	6.1	86.4	4.41	18	21.2	3.16	1.8	2.2	95	56.52
666	99-RDD-0739	657395.00	5366090.00	0.28	3	10	5.3	87.4	11.39	55	34.4	8.74	1.8	1.2	97	40.71

Site	Sample #	Easting	Northing	Ag	As	Au	Au	Cu	Co	Cr	Ni	Pb	Pd	Pt	Zn	LOI
		NAD83	Method---------->	ICP-MS	INAA	INAA	FA	ICP-MS	ICP-MS	ICP-OES	ICP-MS	ICP-MS	FA	FA	ICP-MS	Grav.
		UTM	Units---------->	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	%
		Zone 16	Detection limit-->	0.02	1	1	0.9	0.5	0.05	4	0.5	0.05	0.9	0.5	1	0.01
668	99-RDD-0742	657202.00	5365140.00	0.24	5	11	12.8	138.3	28.41	86	93.2	7.04	4.7	2.7	163	33.62
669	99-RDD-0743	656220.00	5364820.00	0.30	3	13	10.0	129.8	7.98	90	43.6	9.90	4.0	2.3	87	38.77
670	99-RDD-0744	655931.00	5363610.00	0.16	3	3	n/a	74.5	4.24	23	26.0	4.70	n/a	n/a	67	57.92
671	99-RDD-0745	655396.26	5363389.62	0.19	3	5	4.9	74.7	8.50	65	40.1	7.60	2.7	1.7	115	44.10
672	99-RDD-0746	654852.00	5364110.00	0.18	3	5	4.5	77.8	7.05	31	37.2	4.98	2.5	1.5	144	65.06
673	99-RDD-0747	653886.00	5363570.00	0.18	2	2	2.8	71.3	3.42	10	14.5	2.11	2.5	2.0	62	54.18
674	99-RDD-0748	654034.07	5361916.45	0.32	7	5	5.5	126.8	15.04	77	57.7	15.80	4.4	2.3	160	42.62
675	99-RDD-0749	654659.00	5361330.00	0.21	3	2	n/a	45.4	3.97	19	70.8	4.24	n/a	n/a	55	65.45
676	99-RDD-0751	653949.70	5361236.61	0.17	2	3	6.5	46.7	8.43	28	37.3	4.71	1.9	1.4	61	55.27
677	99-RDD-0752	653709.00	5360750.00	0.23	2	4	4.5	65.2	9.07	45	57.0	8.30	2.9	1.7	74	37.45
678	99-RDD-0753	653267.26	5360784.57	0.29	2	3	3.2	77.2	4.92	21	24.8	3.13	1.8	1.2	90	54.50
679	99-RDD-0754	652405.00	5360330.00	0.12	2	5	3.2	56.1	7.82	53	31.0	3.44	4.5	3.5	75	55.51
680	99-RDD-0755	652339.94	5359758.09	0.28	2	2	2.9	100.7	9.54	44	41.2	4.98	5.5	3.8	78	51.88
681	99-RDD-0756	651670.54	5359573.29	0.24	3	2	2.2	94.3	6.62	26	32.8	3.76	3.8	2.6	94	63.31
682	99-RDD-0757	651923.00	5361070.00	0.18	3	4	3.8	76.1	7.81	35	32.2	3.81	1.9	1.8	107	52.93
683	99-RDD-0758	652856.00	5361510.00	0.23	4	5	3.7	122.3	14.30	85	66.8	6.95	3.6	1.7	150	43.86
684	99-RDD-0759	651906.00	5361730.00	0.37	5	8	4.5	127.7	16.05	44	41.4	8.46	2.9	2.1	129	44.53
685	99-RDD-0761	651874.00	5362210.00	0.12	3	4	2.6	75.9	5.85	31	48.0	3.27	2.2	1.6	61	62.18
686	99-RDD-0762	651309.24	5362659.74	0.37	4	5	3.8	90.3	8.28	24	24.8	3.71	1.9	1.6	61	41.73
687	99-RDD-0763	652599.00	5362940.00	0.24	3	2	3.2	85.8	8.90	33	29.6	4.00	1.8	1.4	61	43.96
688	99-RDD-0764	653387.00	5363920.00	0.25	3	3	2.5	71.6	7.95	29	24.6	3.74	1.5	1.2	78	51.74
689	99-RDD-0765	652985.00	5364580.00	0.13	2	1	2.0	50.3	3.78	13	13.7	3.41	1.4	1.1	63	66.29
690	99-RDD-0766	652534.00	5365030.00	0.11	2	2	1.5	47.8	3.08	8	12.0	3.89	1.5	1.7	43	54.75
691	99-RDD-0767	654328.66	5364612.10	0.24	3	2	2.7	61.3	5.23	20	18.6	3.36	1.7	1.2	63	53.92
692	99-RDD-0768	656452.91	5365718.17	0.29	4	4	3.7	91.0	8.66	25	25.1	2.84	2.2	1.1	106	62.25
694	99-RDD-0771	660502.00	5372030.00	0.09	2	2	3.2	52.8	6.40	22	25.4	3.67	1.7	1.4	67	40.48
695	99-RDD-0772	661806.00	5372350.00	0.08	3	<1	2.4	34.8	8.79	15	25.5	4.52	2.3	1.5	59	46.59
696	99-RDD-0773	669514.91	5376097.13	0.15	3	7	4.5	42.2	3.53	26	13.0	8.22	1.7	2.3	174	61.16
697	99-RDD-0774	671696.41	5378051.41	0.17	2	4	n/a	124.4	11.14	39	27.5	7.64	n/a	n/a	122	23.12
698	99-RDD-0775	673806.00	5380760.00	0.12	4	3	3.2	43.7	12.65	49	23.0	6.44	3.7	2.3	123	32.38
699	99-RDD-0776	674015.00	5381530.00	0.14	5	4	15.9	66.7	17.57	39	20.1	4.18	3.4	1.9	120	39.83
700	99-RDD-0777	676871.14	5384687.94	0.10	1	5	6.6	75.7	5.45	32	26.1	5.22	2.6	1.8	117	28.12
701	99-RDD-0778	678973.00	5387490.00	0.17	4	2	10.6	44.1	4.74	17	13.9	4.61	1.8	1.1	108	63.85
702	99-RDD-0779	682289.00	5393120.00	0.07	6	<1	3.6	17.9	7.63	<4	11.1	2.21	2.7	1.6	33	32.31
703	99-RDD-0781	682273.00	5393490.00	0.08	3	1	n/a	38.5	6.13	22	18.7	3.62	n/a	n/a	84	66.16
704	99-RDD-0782	683319.00	5393990.00	0.12	8	1	3.9	32.6	11.51	12	14.3	2.65	1.6	0.9	70	49.07
705	99-RDD-0783	696260.00	5385890.00	0.07	3	<1	3.1	52.4	3.02	10	14.3	3.87	2.7	1.3	49	49.69
706	99-RDD-0784	696293.00	5384770.00	0.13	4	<1	4.3	63.1	14.25	26	35.2	3.52	3.1	1.9	151	49.35
707	99-RDD-0785	697532.00	5385760.00	0.11	3	1	3.4	55.7	5.73	21	19.6	2.75	2.8	1.9	90	56.03
708	99-RDD-0786	697291.00	5385830.00	0.12	3	1	5.6	56.2	5.30	19	18.2	2.50	2.5	1.8	96	53.15
709	99-RDD-0787	697516.00	5384540.00	0.06	7	2	n/a	18.7	3.09	13	10.5	2.54	n/a	n/a	71	68.77
710	99-RDD-0788	697613.00	5385010.00	0.07	5	<1	2.6	43.6	8.32	29	32.0	4.74	3.8	1.9	92	54.83
711	99-RDD-0789	698836.00	5383830.00	0.05	6	1	2.8	29.0	4.07	15	18.8	3.80	3.3	2.0	73	60.67
712	99-RDD-0791	697983.00	5382320.00	0.06	4	<1	3.2	41.2	4.33	12	19.8	3.74	3.4	1.8	63	59.61
713	99-RDD-0792	698577.87	5381732.60	0.07	5	1	3.7	50.1	7.62	22	30.4	2.13	3.2	2.1	82	47.94
714	99-RDD-0793	698279.82	5380442.52	0.07	4	1	2.6	40.0	3.61	10	12.6	3.84	2.9	2.0	71	72.85
715	99-RDD-0794	698904.34	5379802.37	0.04	4	1	1.4	22.3	2.83	8	11.7	4.42	1.9	1.6	55	42.57
716	99-RDD-0795	700155.45	5379541.91	0.06	5	<1	n/a	41.6	2.88	10	11.7	3.15	n/a	n/a	55	67.98
717	99-RDD-0796	700531.56	5377072.50	0.22	4	2	6.4	61.9	9.11	32	27.4	6.11	2.4	2.0	70	47.90
718	99-RDD-0797	699526.45	5378252.23	0.14	13	<1	4.1	87.5	19.00	71	63.1	6.09	8.3	4.6	145	36.12
719	99-RDD-0798	698369.00	5379130.00	0.13	8	<1	4.8	74.5	11.38	43	32.7	3.50	5.1	2.9	109	55.12
720	99-RDD-0799	697605.33	5378529.78	0.20	9	<1	3.3	79.3	8.90	73	47.6	4.77	6.2	3.1	104	44.52
721	99-RDD-0801	696359.56	5376884.57	0.13	7	<1	2.8	75.5	11.26	56	44.1	3.32	4.0	2.9	72	44.68
722	99-RDD-0802	695857.73	5376618.17	0.24	10	1	<0.9	75.2	9.63	27	22.3	3.24	<0.9	<0.5	97	60.41
723	99-RDD-0803	695182.00	5376150.00	0.16	11	<1	<0.9	75.4	6.27	29	33.9	3.22	1.7	0.9	77	57.41
724	99-RDD-0804	693981.41	5375565.90	0.18	7	3	<0.9	85.9	9.72	22	29.4	2.81	1.6	0.9	69	47.91
725	99-RDD-0805	693534.60	5375317.16	0.13	11	3	<0.9	70.8	6.70	22	31.6	5.63	2.3	1.3	73	53.87
726	99-RDD-0806	690494.55	5375795.69	0.08	3	2	<0.9	28.2	3.19	40	17.9	7.41	1.4	0.9	106	48.43
727	99-RDD-0807	692725.22	5376165.46	0.07	6	5	<0.9	48.6	4.38	40	30.1	3.34	3.7	1.0	97	52.75
728	99-RDD-0808	693883.95	5377044.37	0.11	7	2	<0.9	83.3	10.19	43	47.6	5.94	1.9	1.5	91	55.88
729	99-RDD-0809	693508.00	5376940.00	0.10	6	<1	1.8	104.0	6.10	17	41.3	1.75	3.0	1.6	92	61.90

Site	Sample #	Easting	Northing	Ag	As	Au	Au	Cu	Co	Cr	Ni	Pb	Pd	Pt	Zn	LOI
		NAD83	Method---------->	ICP-MS	INAA	INAA	FA	ICP-MS	ICP-MS	ICP-OES	ICP-MS	ICP-MS	FA	FA	ICP-MS	Grav.
		UTM	Units---------->	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	%
		Zone 16	Detection limit-->	0.02	1	1	0.9	0.5	0.05	4	0.5	0.05	0.9	0.5	1	0.01
730	99-RDD-0811	694538.00	5377520.00	0.11	3	1	8.5	71.9	7.57	20	26.3	2.74	2.9	1.6	87	47.63
731	99-RDD-0812	694365.02	5378434.68	0.08	3	2	2.2	78.8	6.35	23	52.9	3.14	2.6	1.7	89	60.20
732	99-RDD-0813	694013.25	5378202.50	0.06	2	2	2.5	63.5	7.12	22	33.9	2.15	2.2	1.5	69	52.08
733	99-RDD-0814	695295.00	5379360.00	0.08	3	1	2.0	78.6	5.77	24	25.9	1.94	2.8	1.7	116	52.82
734	99-RDD-0815	695089.97	5379923.99	0.11	3	3	3.4	160.8	4.92	19	18.6	2.00	5.5	2.0	116	58.68
735	99-RDD-0816	694908.00	5380230.00	0.12	4	1	2.7	159.6	10.58	25	49.9	3.73	5.6	4.8	112	61.39
736	99-RDD-0817	695288.51	5381618.77	0.07	2	2	2.1	59.6	7.38	33	33.0	2.84	3.2	2.3	76	49.85
737	99-RDD-0818	697291.00	5382030.00	0.17	6	2	3.4	136.4	16.00	58	49.1	3.61	7.1	4.1	127	57.24
738	99-RDD-0819	696969.00	5382400.00	0.05	3	<1	1.7	55.6	3.26	22	36.8	2.16	3.0	1.9	57	63.98
739	99-RDD-0821	697355.00	5383170.00	0.09	3	8	1.8	68.2	6.78	24	39.9	3.13	2.5	2.4	98	55.15
740	99-RDD-0822	697613.00	5382980.00	0.07	2	2	1.6	49.4	10.46	20	30.8	2.34	2.3	2.0	107	59.51
741	99-RDD-0823	695905.03	5382622.66	0.12	7	1	1.9	74.8	18.85	34	40.1	3.32	2.8	2.1	138	52.02
742	99-RDD-0824	696277.74	5384189.88	0.13	4	2	2.8	67.5	7.30	25	28.7	10.49	3.7	1.8	85	53.29
743	99-RDD-0825	695536.00	5383700.00	0.06	4	<1	n/a	47.0	5.41	19	24.4	2.78	n/a	n/a	68	58.19
744	99-RDD-0826	693265.79	5383761.19	0.07	2	1	1.3	68.6	4.68	31	49.5	2.33	2.4	1.2	60	49.53
745	99-RDD-0827	693405.59	5384673.86	0.11	1	2	2.8	77.9	4.13	16	21.7	2.06	2.3	1.4	62	36.69
746	99-RDD-0828	693572.00	5386090.00	0.08	1	2	2.3	78.1	3.00	9	12.4	1.54	2.4	1.4	49	47.58
747	99-RDD-0829	691908.88	5385633.99	0.11	1	2	2.1	62.9	6.48	18	22.2	5.12	2.2	1.5	72	50.85
748	99-RDD-0831	691572.61	5385522.99	0.09	1	4	2.0	52.3	5.93	25	25.2	3.68	2.5	1.6	83	57.69
749	99-RDD-0832	690369.00	5386420.00	0.09	3	4	2.1	55.1	5.07	47	31.3	5.19	3.7	2.3	60	40.72
752	99-RDD-0835	686619.00	5393430.00	0.09	2	1	1.1	36.2	6.48	28	20.0	3.01	2.0	1.5	73	33.02
753	99-RDD-0836	682804.00	5394040.00	0.09	3	<1	66.4	21.0	5.24	23	15.3	4.60	2.1	2.6	85	49.13
754	99-RDD-0837	679021.00	5389720.00	0.18	4	2	1.5	52.1	15.32	32	26.7	4.02	2.7	1.7	116	51.20
755	99-RDD-0838	674112.00	5385520.00	0.28	2	6	8.7	664.0	8.56	26	22.5	6.73	2.5	1.6	141	43.60
756	99-RDD-0839	671229.31	5381746.63	0.08	2	2	1.7	29.0	2.70	12	9.9	3.54	1.3	1.5	80	55.45
757	99-RDD-0841	670908.00	5377390.00	0.20	5	9	11.0	74.4	8.43	33	22.9	5.64	1.6	1.6	129	50.85
758	99-RDD-0842	670015.00	5374430.00	0.42	3	7	7.4	131.7	19.14	57	28.2	4.13	2.9	2.4	100	56.33
759	99-RDD-0843	669291.00	5371030.00	0.17	4	2	2.1	42.2	15.43	61	35.3	4.81	2.0	1.9	95	34.09
760	99-RDD-0844	667601.00	5368960.00	0.15	6	4	3.6	57.0	8.40	49	26.7	8.56	2.1	2.5	78	34.33
761	99-RDD-0845	665250.00	5367120.00	0.72	6	5	6.7	95.1	25.65	41	20.7	11.34	1.7	1.8	67	53.10
762	99-RDD-0846	664768.00	5366660.00	0.33	3	4	7.8	94.5	6.39	38	21.5	5.88	1.6	1.5	67	42.07
763	99-RDD-0847	664156.00	5366380.00	0.58	4	5	8.4	113.8	3.96	29	17.8	6.66	1.4	2.0	59	45.05
764	99-RDD-0848	664861.44	5363874.22	0.33	7	6	4.9	68.7	13.40	49	21.9	13.20	1.9	1.6	99	36.04
765	99-RDD-0849	662755.00	5363900.00	0.13	4	3	5.8	60.2	7.40	31	25.5	3.84	2.0	1.5	66	32.16
766	99-RDD-0851	663206.00	5363280.00	0.16	5	9	4.7	120.8	11.49	29	42.4	5.15	3.8	2.4	64	35.45
767	99-RDD-0852	663931.00	5362360.00	0.19	5	6	5.5	83.6	8.16	36	25.1	4.60	2.0	1.4	81	37.59
768	99-RDD-0853	663462.62	5361703.29	0.16	3	7	6.1	57.7	10.37	44	24.9	10.67	2.0	2.0	80	26.20
769	99-RDD-0854	662144.00	5362120.00	0.10	3	5	5.4	39.7	10.67	36	23.2	5.44	1.9	1.7	70	16.91
770	99-RDD-0855	662827.01	5360199.46	0.12	3	6	5.5	37.0	14.51	49	31.0	6.81	2.2	1.8	100	25.14
772	99-RDD-0857	661758.00	5360640.00	0.16	3	2	n/a	41.5	8.73	29	15.2	5.93	n/a	n/a	55	40.78
773	99-RDD-0858	660647.00	5360520.00	0.12	3	2	4.9	36.3	7.11	24	17.2	4.34	1.8	1.5	81	59.69
774	99-RDD-0859	659504.00	5359930.00	0.09	3	4	n/a	56.7	9.17	24	34.1	3.24	n/a	n/a	79	63.98
775	99-RDD-0861	658506.00	5359250.00	0.13	3	3	5.9	42.3	7.72	42	23.4	7.26	1.8	2.8	90	35.24
776	99-RDD-0862	657749.00	5358740.00	0.18	3	5	5.4	44.8	12.21	39	24.0	4.87	2.0	4.6	104	37.07
777	99-RDD-0863	658554.00	5358030.00	0.16	4	6	5.8	58.2	12.61	51	25.5	8.78	2.3	12.4	113	39.19
778	99-RDD-0864	659681.00	5358170.00	0.26	5	4	7.6	73.1	33.73	47	27.2	5.47	2.9	2.4	109	34.22
779	99-RDD-0865	660904.00	5358370.00	0.17	4	5	n/a	42.0	4.61	27	16.2	6.93	n/a	n/a	48	39.85
780	99-RDD-0866	662820.00	5356030.00	0.23	3	3	3.7	125.3	7.53	37	31.0	4.13	3.0	2.0	69	55.06
781	99-RDD-0867	663013.00	5355780.00	0.12	2	3	3.3	68.0	7.24	15	16.4	3.10	2.2	1.9	67	63.49
782	99-RDD-0868	662884.00	5355320.00	0.16	2	2	3.0	74.6	7.30	14	15.1	2.89	2.2	1.4	81	61.95
783	99-RDD-0869	664172.00	5355080.00	0.21	3	13	5.0	80.6	8.20	46	27.2	9.09	3.5	2.4	84	37.09
784	99-RDD-0871	665830.00	5354180.00	0.13	2	4	3.4	42.1	9.13	39	26.5	4.18	2.5	2.0	73	42.42
786	99-RDD-0873	666368.29	5353122.00	0.13	4	3	4.2	59.2	26.44	84	55.4	7.69	5.7	3.9	119	17.51
787	99-RDD-0874	662627.00	5353520.00	0.22	4	2	5.2	106.5	9.61	69	30.1	9.39	5.5	3.3	102	42.34
788	99-RDD-0875	661979.57	5353605.18	0.06	2	1	2.6	37.0	3.83	10	12.7	2.93	2.0	1.3	48	58.53
789	99-RDD-0876	661902.00	5355230.00	0.18	2	4	6.1	83.3	6.44	25	22.0	3.89	1.9	1.3	65	55.73
790	99-RDD-0877	660470.00	5353390.00	0.22	2	5	5.2	102.5	6.91	22	15.7	3.70	4.1	2.1	65	61.64
791	99-RDD-0878	659794.00	5354550.00	0.25	2	2	4.5	79.1	16.06	48	33.8	6.10	3.6	2.3	125	41.41
792	99-RDD-0879	660277.00	5355340.00	0.20	2	3	3.2	81.4	5.62	25	28.7	3.75	2.1	1.7	74	62.51
793	99-RDD-0881	659745.00	5355890.00	0.17	2	4	5.3	46.4	16.04	61	40.4	7.16	2.3	2.3	102	23.06
794	99-RDD-0882	657749.00	5356480.00	0.19	5	6	7.0	51.7	18.30	65	38.8	11.75	2.5	2.0	119	22.81

Site	Sample #	Easting	Northing	Ag	As	Au	Au	Cu	Co	Cr	Ni	Pb	Pd	Pt	Zn	LOI
		NAD83	Method------->	ICP-MS	INAA	INAA	FA	ICP-MS	ICP-MS	ICP-OES	ICP-MS	ICP-MS	FA	FA	ICP-MS	Grav.
		UTM	Units------->	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	%
		Zone 16	Detection limit-->	0.02	1	1	0.9	0.5	0.05	4	0.5	0.05	0.9	0.5	1	0.01
795	99-RDD-0883	655866.00	5357030.00	0.25	2	5	6.1	57.5	9.54	49	26.9	6.25	2.0	1.9	88	35.06
796	99-RDD-0884	654240.00	5356900.00	0.36	4	4	9.5	61.1	13.73	59	27.1	17.78	2.9	2.5	92	37.74
797	99-RDD-0885	657182.81	5363327.44	0.34	3	5	4.7	45.2	46.48	34	25.0	12.74	1.6	1.3	97	48.26
798	99-RDD-0886	656541.37	5362799.38	0.11	1	1	2.2	24.3	6.17	25	30.1	5.54	1.2	1.1	83	37.16
800	99-RDD-0888	661693.00	5367430.00	0.24	3	5	3.3	71.2	8.64	28	20.0	6.86	1.9	1.3	92	48.16
801	99-RDD-0889	666120.00	5373370.00	0.11	1	1	1.9	84.7	4.30	6	15.0	3.70	1.4	1.2	42	47.68
802	99-RDD-0891	668847.22	5378814.25	0.10	2	1	2.9	52.4	9.24	37	22.2	5.31	3.1	2.2	84	30.82
803	99-RDD-0892	672309.00	5385750.00	0.25	2	2	4.1	49.8	4.51	28	18.0	5.12	1.9	1.5	117	47.89
804	99-RDD-0893	671713.00	5385960.00	0.04	1	2	2.7	16.3	2.39	8	10.9	2.76	1.3	1.2	50	47.33
805	99-RDD-0894	678619.00	5390950.00	0.10	3	<1	1.7	30.3	8.06	30	27.9	5.69	2.6	2.3	63	39.92
806	99-RDD-0895	682514.00	5393860.00	0.18	7	2	1.0	35.1	6.22	34	17.8	8.95	3.7	2.1	132	60.27
807	99-RDD-0896	680767.29	5391904.28	0.04	2	1	n/a	15.2	2.47	8	12.3	2.54	n/a	n/a	49	48.41
808	99-RDD-0897	679520.00	5391930.00	0.13	2	2	n/a	39.7	5.46	26	25.9	3.32	n/a	n/a	49	42.84
809	99-RDD-0898	678329.00	5391400.00	0.08	2	2	4.5	27.6	7.25	28	28.2	4.79	1.9	1.6	60	42.54
810	99-RDD-0899	677936.94	5390238.59	0.17	2	2	1.8	42.9	7.91	27	22.9	4.00	2.2	1.6	104	44.34
811	99-RDD-0901	676703.00	5390210.00	0.13	1	2	1.5	34.3	7.57	27	20.6	4.01	1.7	1.3	84	43.80
812	99-RDD-0902	675625.00	5390190.00	0.09	2	<1	1.1	31.1	10.78	35	29.4	4.74	1.5	1.5	114	34.39
813	99-RDD-0903	674079.00	5389660.00	0.09	3	<1	6.6	26.0	15.04	37	29.4	3.24	2.1	1.9	102	40.01
814	99-RDD-0904	673843.98	5388892.55	0.12	2	<1	n/a	30.0	5.65	13	18.6	5.68	n/a	n/a	89	64.50
815	99-RDD-0905	673516.00	5388100.00	0.14	2	1	1.5	65.3	4.91	20	20.0	6.82	2.8	1.6	75	53.04
816	99-RDD-0906	673081.00	5387550.00	0.08	3	1	n/a	20.5	3.76	15	14.1	4.42	n/a	n/a	55	71.01
817	99-RDD-0907	672421.00	5387120.00	0.15	3	2	2.4	29.4	13.56	19	18.4	7.75	1.7	1.4	105	51.98
818	99-RDD-0908	671601.00	5386810.00	0.12	2	2	1.4	26.2	5.03	16	15.7	4.93	1.7	1.2	92	58.62
819	99-RDD-0909	671818.05	5387612.55	0.24	3	3	1.2	46.6	5.93	27	18.6	7.20	2.3	1.5	89	57.83
820	99-RDD-0911	670400.09	5385689.98	0.10	3	<1	1.4	18.9	7.11	29	16.7	4.99	1.6	1.5	74	55.22
821	99-RDD-0912	671645.85	5384045.04	0.24	2	<1	3.7	79.6	8.67	28	25.2	3.93	2.4	1.6	108	40.84
822	99-RDD-0913	672083.00	5382930.00	0.08	2	<1	4.5	18.9	1.85	6	8.0	3.34	1.3	1.0	59	62.81
823	99-RDD-0914	671826.00	5381630.00	0.14	2	6	4.1	112.2	4.80	24	26.1	2.91	2.4	1.6	84	47.93
824	99-RDD-0915	670220.07	5381846.37	0.17	2	<1	2.2	40.1	5.99	21	13.0	2.41	2.2	1.6	100	50.17
825	99-RDD-0916	669637.00	5383060.00	0.12	<1	1	1.3	27.2	2.92	13	12.3	3.43	1.6	1.7	79	54.29
826	99-RDD-0917	668172.00	5382540.00	0.16	1	2	1.4	34.7	7.35	35	21.0	5.25	2.4	2.2	87	36.00
827	99-RDD-0918	667222.81	5381558.75	0.19	1	4	2.1	40.4	9.72	43	22.9	5.33	2.5	1.8	138	33.88
828	99-RDD-0919	668800.00	5380500.00	0.12	1	2	1.8	23.8	3.41	19	14.1	5.23	1.8	1.2	91	43.36
829	99-RDD-0921	668590.00	5381080.00	0.25	4	3	1.8	47.7	6.90	22	18.4	6.55	1.9	1.4	177	48.65
830	99-RDD-0922	667786.00	5380520.00	0.21	3	<1	2.2	55.0	5.96	27	20.9	5.80	2.4	1.6	109	43.17
831	99-RDD-0923	667271.00	5380290.00	0.22	4	3	1.3	41.1	7.08	17	16.3	7.25	1.5	1.4	128	51.18
832	99-RDD-0924	666916.00	5379360.00	0.09	2	2	2.4	37.9	9.63	41	28.0	5.00	3.6	2.9	70	15.22
834	99-RDD-0926	665098.00	5378860.00	0.08	3	<1	1.8	14.5	2.74	10	8.6	2.61	1.5	1.4	51	67.25
835	99-RDD-0927	666450.00	5375590.00	0.11	4	1	1.7	28.3	3.83	10	10.8	3.99	1.5	1.1	62	62.11
836	99-RDD-0928	666754.50	5375904.43	0.14	3	3	3.2	49.8	7.07	11	13.3	2.98	1.6	1.3	89	55.70
837	99-RDD-0929	666970.03	5376227.76	0.12	3	3	2.9	37.6	5.17	12	14.1	3.94	1.5	1.1	55	52.96
838	99-RDD-0931	665549.20	5375751.68	0.11	3	4	n/a	32.7	3.36	14	12.6	2.46	n/a	n/a	63	61.75
839	99-RDD-0932	660872.96	5374816.24	0.06	3	<1	2.0	20.0	3.82	10	15.0	4.98	1.9	1.4	48	50.04
840	99-RDD-0933	658184.00	5369620.00	0.11	4	4	2.8	33.9	4.84	14	14.7	4.09	1.4	1.0	49	44.93
841	99-RDD-0934	657041.07	5368964.21	0.25	4	4	5.4	66.0	17.66	68	39.8	5.90	3.0	2.6	110	18.62
842	99-RDD-0935	655947.00	5370260.00	0.45	3	9	9.8	309.4	12.36	32	31.7	3.06	2.2	2.3	177	55.42
843	99-RDD-0936	655126.00	5369670.00	0.15	4	3	4.1	64.5	10.02	53	35.2	4.34	2.8	3.2	75	25.79
845	99-RDD-0938	651456.00	5370890.00	0.13	4	<1	n/a	42.3	4.60	21	21.8	8.09	n/a	n/a	72	61.39
846	99-RDD-0939	650908.00	5372610.00	0.08	4	<1	1.6	36.8	9.11	37	25.5	3.83	1.8	2.0	93	42.68
847	99-RDD-0941	651198.00	5373720.00	0.05	3	2	1.2	20.3	3.62	16	15.6	2.36	1.6	1.8	43	37.09
848	99-RDD-0942	652743.00	5372770.00	0.10	2	<1	1.4	43.8	2.05	14	14.5	2.03	1.3	2.2	41	55.20
849	99-RDD-0943	654385.00	5374110.00	0.06	2	<1	1.1	24.0	5.58	27	16.3	6.12	1.6	2.8	51	29.56
850	99-RDD-0944	657926.00	5378320.00	0.03	2	1	<0.9	12.0	2.12	9	13.6	2.01	1.5	2.3	65	50.58
851	99-RDD-0945	658062.54	5381297.65	0.04	3	1	0.9	22.2	3.86	12	14.1	3.00	1.4	1.7	55	47.73
852	99-RDD-0946	657612.00	5382310.00	0.11	2	<1	0.9	27.8	2.53	14	14.1	2.84	1.5	2.2	48	52.72
853	99-RDD-0947	658734.00	5383510.00	0.11	2	<1	1.1	30.0	8.24	27	19.3	4.11	1.5	2.2	65	47.78
856	99-RDD-0951	666595.00	5387630.00	0.09	3	<1	3.4	28.9	8.22	45	23.7	4.34	3.9	2.5	86	44.92
857	99-RDD-0952	666401.00	5387940.00	0.09	3	<1	1.4	31.6	10.61	37	25.3	4.26	1.7	2.1	102	50.38
858	99-RDD-0953	665935.00	5388270.00	0.06	3	1	1.0	26.6	7.99	26	28.4	3.60	1.4	2.2	62	48.61
859	99-RDD-0954	669653.00	5389300.00	0.04	3	2	0.9	7.8	22.19	6	13.0	2.42	1.7	1.7	130	54.20
860	99-RDD-0955	669347.00	5389720.00	0.05	2	<1	1.5	20.6	3.13	21	12.6	2.94	1.3	2.1	45	51.34

Site	Sample #	Easting	Northing	Ag	As	Au	Au	Cu	Co	Cr	Ni	Pb	Pd	Pt	Zn	LOI
		NAD83	Method---------->	ICP-MS	INAA	INAA	FA	ICP-MS	ICP-MS	ICP-OES	ICP-MS	ICP-MS	FA	FA	ICP-MS	Grav.
		UTM	Units---------->	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	%
		Zone 15	Detection limit-->	0.02	1	1	0.9	0.5	0.05	4	0.5	0.05	0.9	0.5	1	0.01
861	99-RDD-0956	675355.95	5391007.22	0.12	3	4	1.4	38.3	16.43	38	35.7	5.70	2.1	2.4	111	40.60
862	99-RDD-0957	681253.96	5392114.84	0.14	2	3	1.0	26.6	5.17	30	15.7	4.01	1.9	2.3	83	48.48
863	99-RDD-0958	681146.00	5392430.00	0.16	3	5	1.6	47.9	7.50	34	26.0	2.95	2.1	2.5	117	43.01
864	99-RDD-0959	620104.00	5394790.00	0.09	3	4	1.7	28.2	20.39	55	46.1	4.75	2.2	2.6	119	25.17
865	99-RDD-0961	620420.57	5395262.04	0.14	3	<1	1.1	38.7	18.11	53	31.9	6.56	2.2	2.5	98	41.21
866	99-RDD-0962	619709.00	5393910.00	0.10	2	2	1.1	30.7	11.05	56	34.7	5.57	1.9	2.6	94	23.20
867	99-RDD-0963	619196.00	5393820.00	0.11	7	3	1.5	39.1	19.33	65	41.9	6.17	2.5	2.8	127	24.97
868	99-RDD-0964	618682.93	5393572.26	0.18	5	1	1.4	46.4	12.35	62	35.8	10.73	1.9	2.4	101	35.89
869	99-RDD-0965	618380.00	5394860.00	0.10	8	<1	1.4	40.4	21.85	87	56.6	6.84	3.0	3.0	152	19.79
870	99-RDD-0966	616086.36	5392318.31	0.12	4	2	1.0	31.1	12.19	49	39.2	5.55	1.4	2.1	98	40.20
871	99-RDD-0967	615285.88	5392897.87	0.09	4	3	2.4	29.6	9.86	56	38.8	5.30	2.1	2.8	100	19.00
872	99-RDD-0968	613990.17	5393090.33	0.09	3	4	1.7	32.5	11.26	67	44.2	5.67	2.2	2.7	111	21.20
873	99-RDD-0969	611719.29	5393464.38	0.10	6	<1	1.3	32.9	15.52	61	43.8	5.14	2.5	2.5	110	17.17
874	99-RDD-0971	611656.54	5394285.96	0.15	8	1	2.0	43.7	14.13	65	41.0	7.35	2.4	2.3	125	27.49
875	99-RDD-0972	613148.00	5394718.17	0.12	9	4	2.1	49.1	23.22	69	57.7	8.56	3.0	2.9	157	20.40
876	99-RDD-0973	616346.18	5396398.36	0.14	4	2	1.5	35.4	11.98	56	35.1	8.89	1.9	2.3	98	28.83
877	99-RDD-0974	615541.97	5395701.92	0.16	5	2	1.9	43.5	13.17	62	37.7	6.66	2.0	2.2	114	31.91
878	99-RDD-0975	613282.00	5396121.00	0.14	7	<1	4.3	45.9	23.38	60	55.1	7.76	3.1	3.1	144	23.17
879	99-RDD-0976	611997.00	5395190.00	0.14	9	3	2.2	56.7	29.52	65	74.9	9.43	3.4	3.2	171	22.67
880	99-RDD-0977	685878.00	5394600.00	0.09	2	1	0.9	22.2	4.49	25	17.4	4.70	1.7	2.0	57	34.36
881	99-RDD-0978	684655.00	5396190.00	0.12	3	2	1.0	33.3	4.98	27	20.2	4.21	1.9	2.0	75	59.38
882	99-RDD-0979	683866.00	5396930.00	0.12	5	<1	1.3	26.5	16.20	28	18.2	4.70	2.5	2.1	87	45.54
883	99-RDD-0981	683254.00	5396290.00	0.08	3	2	2.4	34.0	7.39	23	21.0	4.70	2.9	2.3	68	50.17
884	99-RDD-0982	682821.09	5396013.82	0.16	8	4	1.2	60.0	9.80	31	28.0	4.02	4.1	2.3	82	43.41
885	99-RDD-0983	681838.00	5395530.00	0.09	2	3	1.5	24.9	7.38	23	18.4	3.07	1.8	2.0	72	54.41
886	99-RDD-0984	681049.00	5395050.00	0.11	2	<1	1.4	27.0	6.55	25	19.7	3.96	2.3	2.5	76	51.95
887	99-RDD-0985	682128.00	5394200.00	0.10	2	<1	1.3	32.9	6.86	26	20.2	4.54	1.9	2.2	84	56.83
888	99-RDD-0986	681072.36	5392665.22	0.06	1	<1	1.1	22.1	3.57	18	16.6	3.54	1.4	1.9	82	33.94
889	99-RDD-0987	679172.63	5394073.69	0.08	2	<1	1.0	28.2	2.69	13	13.2	2.60	1.5	2.0	63	49.71
890	99-RDD-0988	678644.31	5391920.77	0.08	2	<1	1.2	21.5	3.70	20	19.4	2.47	1.6	1.9	36	38.40
891	99-RDD-0989	677427.00	5391110.00	0.07	1	<1	1.2	28.1	7.40	34	21.7	5.03	2.0	2.6	81	35.76
892	99-RDD-0991	673838.00	5392230.00	0.24	3	<1	1.5	34.7	6.27	26	20.7	5.95	1.8	2.1	140	59.25
893	99-RDD-0992	672845.74	5391098.29	0.33	7	<1	2.3	59.1	90.18	52	54.6	10.13	3.9	3.1	132	53.67
894	99-RDD-0993	672937.00	5390430.00	0.06	3	1	1.1	16.9	5.68	17	11.7	4.86	1.7	2.0	47	58.51
895	99-RDD-0994	672679.00	5389660.00	0.13	4	<1	1.1	23.9	24.70	24	15.3	4.02	2.0	2.2	71	55.66
896	99-RDD-0995	671053.00	5391240.00	0.09	2	<1	1.5	25.7	5.56	23	20.2	2.34	1.7	2.1	64	37.95
897	99-RDD-0996	669379.00	5390000.00	0.08	1	2	1.0	18.9	3.08	23	15.3	2.95	1.5	1.9	44	37.53
898	99-RDD-0997	667988.31	5389067.93	0.13	2	<1	0.9	26.8	2.89	16	13.0	2.12	1.9	2.0	56	55.03
899	99-RDD-0998	667268.94	5389069.05	0.13	3	<1	2.1	31.5	11.81	43	33.0	4.33	1.9	1.9	104	39.89
900	99-RDD-0999	666550.20	5388939.55	0.07	2	2	1.5	23.8	6.24	34	24.9	3.48	1.7	2.6	69	48.24
901	99-RDD-1001	665275.00	5387940.00	0.16	2	<1	1.6	29.8	18.44	30	23.3	3.89	2.0	2.2	54	50.12
902	99-RDD-1002	664495.00	5387420.00	0.05	2	<1	1.3	16.9	2.48	13	11.6	2.11	1.7	1.4	29	39.81
903	99-RDD-1003	664450.00	5388580.00	0.10	1	<1	1.5	33.0	6.04	27	21.6	3.86	1.6	1.6	54	47.59
904	99-RDD-1004	662744.00	5387490.00	0.06	2	<1	2.1	30.9	2.83	12	14.3	2.24	1.6	1.4	49	71.37
905	99-RDD-1005	662804.00	5389870.00	0.26	2	3	1.7	53.8	8.61	31	25.7	5.27	1.8	1.5	75	49.71
906	99-RDD-1006	662236.00	5389530.00	0.26	2	2	1.4	57.5	10.85	36	23.9	10.64	2.0	1.7	112	55.62
908	99-RDD-1008	660964.00	5388840.00	0.10	<1	<1	1.7	18.3	4.58	35	17.9	3.56	4.8	1.4	44	29.35
909	99-RDD-1009	659452.00	5388300.00	0.05	2	<1	<0.9	21.1	4.92	19	16.3	3.35	1.5	1.5	54	35.24
910	99-RDD-1011	659333.00	5387720.00	0.07	1	3	1.2	18.2	5.08	24	19.6	5.00	1.6	1.8	36	22.75
912	99-RDD-1013	658600.00	5387780.00	0.05	1	2	0.9	14.2	5.10	18	15.2	3.37	1.8	1.2	44	31.43
917	99-RDD-1018	651728.34	5387426.32	0.13	2	<1	<0.9	46.7	2.01	6	11.3	1.52	1.5	1.1	104	61.37
919	99-RDD-1021	652062.73	5388171.73	0.12	3	4	1.5	27.9	16.07	66	37.4	4.96	2.8	2.0	113	19.26
920	99-RDD-1022	653033.41	5388764.03	0.09	<1	3	1.6	27.6	22.13	63	40.3	5.20	2.6	2.1	100	13.99
921	99-RDD-1023	654186.00	5389580.00	0.12	2	3	1.2	27.6	15.82	47	28.0	8.69	2.1	1.8	93	27.53
922	99-RDD-1024	655038.63	5389854.60	0.11	<1	1	<0.9	23.6	11.20	49	27.0	6.48	<0.9	0.5	85	22.65
923	99-RDD-1025	656161.19	5390288.88	0.11	2	1	<0.9	27.8	11.92	50	26.9	6.04	<0.9	0.6	86	27.47
924	99-RDD-1026	656304.00	5390810.00	0.07	2	3	<0.9	20.1	8.44	41	27.0	4.70	<0.9	0.5	68	23.12
925	99-RDD-1027	656962.00	5390480.00	0.11	2	<1	<0.9	30.9	4.32	23	21.3	3.49	<0.9	0.5	69	45.96
926	99-RDD-1028	656857.00	5390910.00	0.05	1	<1	<0.9	15.5	5.84	32	22.9	5.06	<0.9	<0.5	47	28.04
927	99-RDD-1029	657821.00	5390650.00	0.16	2	2	n/a	38.7	10.20	33	25.0	4.49	n/a	n/a	82	58.00
928	99-RDD-1031	660769.00	5390960.00	0.05	2	<1	<0.9	19.0	4.47	17	19.7	4.11	1.5	1.5	45	35.82

Site	Sample #	Easting	Northing	Ag	As	Au	Au	Cu	Co	Cr	Ni	Pb	Pd	Pt	Zn	LOI
		NAD83	Method------->	ICP-MS	INAA	INAA	FA	ICP-MS	ICP-MS	ICP-OES	ICP-MS	ICP-MS	FA	FA	ICP-MS	Grav.
		UTM	Units------->	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	%
		Zone 16	Detection limit-->	0.02	1	1	0.9	0.5	0.05	4	0.5	0.05	0.9	0.5	1	0.01
929	99-RDD-1032	661399.36	5391164.79	0.12	2	1	0.9	26.6	4.59	26	19.0	4.92	1.6	1.3	69	52.53
932	99-RDD-1035	666455.00	5392050.00	0.18	3	<1	1.9	36.7	32.59	37	30.0	5.56	2.2	1.7	107	54.83
934	99-RDD-1037	693065.71	5393613.34	0.05	6	3	2.0	76.7	9.58	27	42.9	3.02	6.8	3.0	52	22.34
935	99-RDD-1038	694812.00	5396520.00	0.11	2	1	2.9	24.7	14.13	36	19.8	4.81	3.8	2.1	76	32.20
936	99-RDD-1039	695740.89	5397387.52	0.19	2	<1	<0.9	33.4	27.45	27	25.6	6.73	2.3	1.8	152	42.59
937	99-RDD-1041	696325.00	5397420.00	0.12	2	1	1.3	25.4	10.52	35	21.8	3.46	3.3	1.9	74	33.17
938	99-RDD-1042	696408.92	5398186.50	0.26	2	2	5.2	42.2	5.58	26	20.0	3.40	3.1	1.9	74	48.55
939	99-RDD-1043	697199.01	5398250.17	0.06	1	2	1.1	19.9	7.04	29	17.5	6.56	3.2	2.0	62	30.42
940	99-RDD-1044	697110.20	5398576.60	0.09	<1	1	1.3	19.1	2.39	11	11.3	2.93	2.0	1.2	28	24.46
941	99-RDD-1045	699303.00	5399220.00	0.14	1	<1	1.4	38.8	6.89	25	18.5	4.08	3.0	1.7	82	43.26
942	99-RDD-1046	701767.68	5398561.99	0.06	2	<1	1.6	18.5	12.47	23	18.9	3.54	3.8	2.4	75	14.64
943	99-RDD-1047	701604.00	5400190.00	0.06	2	<1	0.9	19.1	4.05	14	11.5	5.29	2.6	1.3	45	53.74
944	99-RDD-1048	702232.00	5400020.00	0.06	2	<1	1.1	19.8	4.33	14	14.4	3.94	3.4	1.3	41	47.43
945	99-RDD-1049	703246.00	5399720.00	0.10	2	1	1.7	35.2	7.98	32	25.5	4.77	4.7	2.0	69	34.87
946	99-RDD-1051	703008.98	5400268.61	0.09	1	3	1.5	44.3	7.17	33	27.2	4.46	4.9	2.0	63	34.64
947	99-RDD-1052	703778.00	5400800.00	0.15	3	3	1.9	53.9	8.17	40	27.6	5.90	5.8	2.2	76	34.59
948	99-RDD-1053	705095.51	5401672.90	0.10	2	<1	1.6	36.9	6.48	35	20.0	6.13	4.4	4.5	72	29.36
949	99-RDD-1054	705447.77	5402897.41	0.12	2	1	1.1	41.0	7.58	37	22.6	6.82	4.3	2.0	77	29.90
950	99-RDD-1055	702232.00	5402410.00	0.10	3	4	1.7	45.3	8.20	34	24.4	7.06	5.4	3.3	66	20.83
951	99-RDD-1056	700317.00	5402050.00	0.05	2	<1	<0.9	14.6	3.22	9	9.5	5.63	2.1	1.5	39	47.53
952	99-RDD-1057	700381.00	5401430.00	0.05	2	<1	<0.9	12.2	4.16	13	12.2	6.99	2.4	1.4	65	53.75
953	99-RDD-1058	699350.75	5400864.09	0.07	2	<1	<0.9	28.5	3.32	16	14.5	2.92	2.3	2.5	41	32.28
954	99-RDD-1059	698868.00	5403070.00	0.08	1	1	1.1	35.3	5.46	17	15.1	5.04	2.4	2.1	72	51.46
955	99-RDD-1061	697790.00	5402870.00	0.09	<1	<1	<0.9	23.7	3.98	14	12.1	2.59	2.0	1.1	79	50.86
956	99-RDD-1062	696378.60	5402109.41	0.06	<1	1	1.4	16.1	3.98	26	14.8	5.52	2.2	1.6	48	30.81
957	99-RDD-1063	696196.00	5400860.00	0.11	<1	1	1.1	27.8	2.06	13	11.4	2.06	2.4	1.6	46	48.17
958	99-RDD-1064	695182.00	5399240.00	0.14	3	1	1.7	33.2	5.20	17	14.8	3.77	2.5	1.7	69	63.38
959	99-RDD-1065	694490.00	5400620.00	0.18	2	2	1.6	56.0	13.03	52	35.9	4.58	4.6	1.9	105	43.16
961	99-RDD-1067	693814.00	5403360.00	0.14	2	2	1.9	46.7	8.98	32	23.2	7.45	3.5	1.7	83	44.51
962	99-RDD-1068	693218.00	5402940.00	0.10	2	1	1.6	29.2	6.18	23	17.3	3.96	2.7	1.5	109	70.47
963	99-RDD-1069	693363.00	5400750.00	0.15	1	<1	1.8	34.8	3.77	27	18.3	3.52	3.1	1.5	50	32.26
964	99-RDD-1071	693057.00	5399750.00	0.18	3	<1	1.9	67.6	12.38	45	32.7	3.42	5.5	1.9	101	41.95
965	99-RDD-1072	692719.00	5399670.00	0.12	2	2	1.3	34.9	4.39	21	15.5	3.54	2.2	1.5	105	73.51
966	99-RDD-1073	692097.23	5398606.29	0.13	2	<1	2.2	61.0	5.92	41	29.2	7.34	3.2	2.1	75	40.79
967	99-RDD-1074	692574.00	5398130.00	0.17	3	2	2.2	50.6	17.09	34	25.2	5.94	2.9	1.6	92	61.75
970	99-RDD-1077	685122.00	5401710.00	0.12	5	3	1.6	23.4	18.04	19	16.2	4.59	3.1	2.1	81	37.50
971	99-RDD-1078	684687.00	5400390.00	0.12	6	2	1.1	29.1	9.62	36	20.2	4.93	3.2	1.9	88	37.87
972	99-RDD-1079	686699.00	5398010.00	0.08	1	3	1.2	21.8	3.55	19	14.2	3.22	1.8	1.3	43	30.73
973	99-RDD-1081	686087.00	5398460.00	0.13	1	1	1.1	25.7	4.27	25	16.4	4.41	2.6	1.7	47	32.09
974	99-RDD-1082	686329.00	5399490.00	0.11	3	1	1.3	27.7	6.44	32	19.1	4.06	2.8	2.0	73	53.61
975	99-RDD-1083	685846.00	5399860.00	0.13	3	4	1.3	35.8	14.58	26	20.6	5.49	2.7	1.7	83	60.77
976	99-RDD-1084	687295.00	5399670.00	0.13	1	<1	1.5	27.9	5.98	34	18.5	4.91	2.4	1.8	67	40.54
977	99-RDD-1085	689564.00	5399560.00	0.05	2	<1	1.0	22.1	4.71	20	17.2	3.82	2.2	1.3	64	38.60
978	99-RDD-1086	687955.00	5398670.00	0.09	3	1	1.8	30.0	9.19	31	22.6	7.89	3.2	2.0	68	38.98
979	99-RDD-1087	686184.00	5397850.00	0.08	<1	<1	n/a	25.3	1.26	11	7.6	1.87	n/a	n/a	40	36.04
980	99-RDD-1088	684521.02	5398572.78	0.16	7	2	2.1	42.0	13.79	40	26.0	6.15	4.1	2.2	128	49.66
981	99-RDD-1089	684397.00	5399320.00	0.09	1	2	1.7	31.9	4.19	12	10.0	3.73	2.4	1.5	77	57.42
982	99-RDD-1091	684027.00	5399280.00	0.17	16	2	3.1	55.6	15.24	46	27.4	5.72	6.6	3.1	92	36.77
983	99-RDD-1092	683963.00	5399910.00	0.20	3	1	1.3	26.4	37.43	24	14.7	4.64	2.6	1.5	62	56.25
984	99-RDD-1093	683528.00	5399770.00	0.10	2	<1	1.3	18.5	3.56	22	12.0	4.04	2.6	1.6	48	41.50
985	99-RDD-1094	683566.18	5400967.58	0.13	5	<1	2.1	25.7	24.45	23	17.0	9.70	3.3	1.9	74	41.27
986	99-RDD-1095	683367.00	5401490.00	0.13	4	<1	1.5	39.5	13.10	42	23.1	3.91	4.2	1.8	106	38.53
987	99-RDD-1096	683158.00	5402620.00	0.06	2	<1	0.9	17.2	3.38	16	12.7	3.22	1.9	1.3	35	28.07
988	99-RDD-1097	682514.00	5402490.00	0.26	3	<1	1.7	34.2	10.82	22	15.2	6.15	3.3	2.1	48	49.04
989	99-RDD-1098	682758.82	5401069.30	0.07	6	3	1.4	26.7	20.32	35	21.1	6.68	3.8	2.7	87	34.36
990	99-RDD-1099	681959.83	5400969.35	0.06	1	2	1.0	17.1	5.24	31	24.0	5.03	1.7	2.0	81	22.87
991	99-RDD-1101	681613.00	5401220.00	0.09	2	<1	<0.9	18.4	3.04	25	14.9	3.48	2.3	2.3	53	39.02
992	99-RDD-1102	680695.00	5401700.00	0.09	2	3	1.0	24.7	3.72	13	12.5	2.89	1.9	1.7	84	72.34
993	99-RDD-1103	679922.00	5401960.00	0.11	3	2	1.3	26.8	12.20	35	28.3	3.46	2.6	2.0	91	26.60
994	99-RDD-1104	679520.00	5400680.00	0.13	2	<1	n/a	25.9	13.57	32	22.5	3.78	n/a	n/a	103	60.78
995	99-RDD-1105	680580.55	5398546.69	0.10	<1	<1	0.9	24.9	5.83	27	18.7	4.96	2.0	1.5	66	52.13

Site	Sample #	Easting	Northing	Ag	As	Au	Au	Cu	Co	Cr	Ni	Pb	Pd	Pt	Zn	LOI
		NAD83	Method---------->	ICP-MS	INAA	INAA	FA	ICP-MS	ICP-MS	ICP-OES	ICP-MS	ICP-MS	FA	FA	ICP-MS	Grav.
		UTM	Units---------->	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	%
		Zone 16	Detection limit-->	0.02	1	1	0.9	0.5	0.05	4	0.5	0.05	0.9	0.5	1	0.01
996	99-RDD-1106	683626.29	5398288.02	0.10	2	<1	1.0	27.2	5.64	19	14.4	3.98	2.5	1.7	79	46.51
997	99-RDD-1107	683592.00	5398870.00	0.08	2	3	0.9	22.0	3.44	9	10.4	2.62	1.9	1.3	51	46.38
998	99-RDD-1108	683802.00	5399110.00	0.19	9	3	2.2	50.4	11.26	29	23.0	5.48	5.7	3.1	93	43.30
999	99-RDD-1109	687906.00	5395790.00	0.09	3	2	2.5	26.0	8.21	30	19.1	5.68	2.5	1.6	73	43.70
1002	99-RDD-1113	677073.00	5394520.00	0.06	4	2	2.1	78.5	10.49	25	42.4	4.62	6.0	3.0	67	23.76
1004	99-RDD-1115	670232.00	5393960.00	0.14	2	2	1.7	44.3	21.02	51	41.1	7.54	3.4	2.4	143	25.38
1005	99-RDD-1116	667770.00	5393230.00	0.12	3	1	1.1	25.5	9.46	31	20.0	8.00	2.7	2.0	61	45.31
1006	99-RDD-1117	666755.00	5392990.00	0.08	2	<1	0.9	19.4	5.53	31	19.2	3.00	2.2	1.7	57	37.79
1007	99-RDD-1118	665457.75	5393380.18	0.18	2	2	1.1	26.5	9.56	33	17.0	6.63	1.9	1.5	86	50.83
1008	99-RDD-1119	664630.00	5393730.00	0.10	2	2	0.9	21.9	2.58	26	13.2	4.00	1.8	1.5	69	36.85
1009	99-RDD-1121	662670.00	5394240.00	0.10	2	<1	1.4	32.0	10.30	41	30.9	4.63	3.6	2.2	72	44.88
1010	99-RDD-1122	661428.00	5394480.00	0.05	2	<1	1.4	17.5	6.71	38	27.3	5.32	3.2	1.9	75	23.69
1011	99-RDD-1123	658212.52	5395146.24	0.17	3	1	1.1	22.2	6.87	35	16.3	9.15	1.7	1.7	64	42.36
1012	99-RDD-1124	656015.62	5394860.46	0.08	2	<1	2.9	19.5	2.45	19	11.2	4.85	1.7	1.5	32	45.07
1014	99-RDD-1126	653028.00	5394890.00	0.06	<1	3	1.5	20.9	13.68	50	29.8	3.84	2.9	2.2	79	12.73
1015	99-RDD-1127	649711.00	5394660.00	0.08	1	<1	0.9	16.2	5.49	37	19.7	4.88	1.9	1.6	59	35.27
1016	99-RDD-1128	643961.00	5395790.00	0.16	3	<1	1.4	38.6	13.39	37	23.4	5.67	2.5	1.9	55	36.54
1017	99-RDD-1129	643829.00	5396580.00	0.13	<1	<1	1.5	33.9	9.48	42	27.0	5.48	2.6	2.0	71	29.37
1018	99-RDD-1131	642505.90	5395778.57	0.15	4	2	1.4	32.4	15.96	34	22.9	10.22	2.5	1.7	61	37.71
1019	99-RDD-1132	643039.86	5397049.48	0.18	3	2	1.3	40.7	12.71	50	30.0	7.00	2.4	1.8	90	41.23
1020	99-RDD-1133	642320.07	5397042.30	0.15	2	2	1.8	37.3	9.48	46	32.0	6.61	2.5	1.8	82	37.31
1021	99-RDD-1134	641598.75	5397284.30	0.09	2	<1	2.0	24.0	8.31	42	27.4	5.61	2.3	2.1	71	21.18
1022	99-RDD-1135	639828.00	5397350.00	0.28	<1	<1	2.3	44.8	7.82	36	22.6	5.20	2.4	1.7	78	53.90
1023	99-RDD-1136	630500.00	5399000.00	0.11	2	2	1.0	29.6	6.99	29	22.8	3.40	2.2	1.8	71	39.77
1024	99-RDD-1137	629697.00	5398320.00	0.10	2	2	1.3	26.4	9.60	39	32.0	4.13	2.0	2.2	118	33.25
1025	99-RDD-1138	626075.73	5398707.28	0.11	2	<1	2.2	14.8	9.66	36	18.8	4.59	2.3	2.2	68	24.44
1026	99-RDD-1139	625202.45	5398602.50	0.09	4	1	0.9	27.9	5.42	29	22.3	3.35	1.8	1.5	60	46.11
1027	99-RDD-1141	624881.00	5397570.00	0.12	4	2	2.9	37.3	12.57	56	38.4	5.16	2.2	1.8	98	29.62
1028	99-RDD-1142	623453.09	5397038.03	0.15	6	<1	1.7	34.5	10.42	55	28.0	8.81	2.2	2.1	87	30.09
1029	99-RDD-1143	622642.80	5396300.42	0.10	3	4	2.0	30.0	11.18	58	42.6	4.77	2.5	1.9	99	19.93
1030	99-RDD-1144	621384.53	5397119.71	0.13	5	<1	1.4	27.9	15.64	60	33.4	7.84	2.4	1.9	98	23.78
1031	99-RDD-1145	620365.25	5398421.76	0.12	7	5	1.1	31.7	9.76	56	30.5	10.31	1.9	1.8	94	28.82
1033	99-RDD-1147	615933.65	5399309.08	0.10	3	<1	1.0	28.2	7.19	38	30.3	3.36	1.7	1.7	90	58.32
1034	99-RDD-1148	613706.00	5398040.00	0.14	3	1	1.3	38.1	10.23	41	31.0	4.33	2.0	1.4	69	50.32
1035	99-RDD-1149	613320.58	5398477.13	0.19	6	2	1.0	47.8	26.94	36	44.0	4.04	2.0	1.3	86	48.01
1036	99-RDD-1151	612245.00	5398180.00	0.15	1	<1	1.3	43.7	9.51	42	33.8	4.00	1.9	1.7	108	49.67
1037	99-RDD-1152	610451.00	5398328.90	0.08	4	<1	1.5	29.0	16.50	76	54.7	6.64	2.0	1.9	128	30.88
1038	99-RDD-1153	611195.00	5400420.00	0.09	8	2	1.7	27.3	17.75	55	36.0	4.04	3.4	1.9	87	21.60
1039	99-RDD-1154	613182.00	5399830.00	0.09	5	5	2.2	19.8	14.70	51	30.7	3.64	2.0	1.8	78	19.12
1040	99-RDD-1155	619172.38	5400314.19	0.12	10	2	1.3	38.8	13.99	54	36.5	9.37	2.0	1.7	98	35.64
1041	99-RDD-1156	623925.50	5398782.82	0.12	6	<1	1.6	27.6	19.38	50	28.4	8.80	2.1	1.9	99	28.36
1042	99-RDD-1157	624894.00	5399730.00	0.10	2	<1	1.4	19.3	13.62	44	25.2	4.93	2.1	1.7	80	30.82
1044	99-RDD-1159	630592.00	5400770.00	0.06	4	<1	0.9	20.4	4.88	17	17.9	3.14	2.0	1.5	51	48.54
1045	99-RDD-1161	637368.00	5400570.00	0.12	2	2	1.2	36.8	12.34	55	34.0	4.65	2.5	2.1	108	33.37
1046	99-RDD-1162	644754.13	5396841.10	0.05	2	<1	<0.9	12.3	7.95	17	15.8	2.30	1.6	1.6	55	12.94
1048	99-RDD-1164	656699.00	5395840.00	0.08	<1	<1	1.2	17.4	3.75	24	16.5	4.52	1.5	1.4	24	32.58
1049	99-RDD-1165	668462.00	5392800.00	0.20	2	<1	1.1	36.4	17.56	32	27.5	5.83	2.0	1.4	77	53.41
1050	99-RDD-1166	668859.21	5393440.40	0.12	1	<1	1.5	39.2	14.77	53	32.4	5.80	3.1	2.8	115	25.33
1051	99-RDD-1167	674112.00	5393310.00	0.16	2	<1	1.0	30.4	7.60	31	21.7	3.90	2.2	1.6	76	38.97
1052	99-RDD-1168	673854.00	5393880.00	0.08	2	2	<0.9	31.1	3.88	26	21.7	3.42	2.1	1.6	46	38.72
1053	99-RDD-1169	682997.00	5397060.00	0.12	9	2	7.0	30.9	14.31	37	17.7	5.28	3.3	1.9	125	46.13
1054	99-RDD-1171	676504.00	5397940.00	0.11	1	<1	0.9	26.7	2.62	25	14.3	3.39	1.9	1.5	44	55.37
1055	99-RDD-1172	671771.38	5400737.91	0.11	1	1	1.0	29.6	4.61	23	17.5	3.20	1.9	1.5	57	37.65
1056	99-RDD-1173	667245.00	5400940.00	0.12	2	<1	1.4	30.9	8.80	37	22.7	4.52	4.3	2.9	85	48.71
1057	99-RDD-1174	660201.00	5400840.00	0.17	3	1	1.9	52.1	18.84	58	40.7	6.94	4.0	2.5	125	25.80
1058	99-RDD-1175	653514.00	5401040.00	0.09	3	3	1.2	35.6	11.21	49	34.0	6.63	2.5	1.9	108	33.75
1059	99-RDD-1176	647527.00	5401320.00	0.12	3	<1	1.2	37.0	8.24	40	32.4	3.81	2.1	1.3	76	31.41
1060	99-RDD-1177	642504.38	5401186.47	0.15	3	1	1.2	40.4	9.54	51	25.7	8.41	2.0	1.6	92	38.51
1061	99-RDD-1178	638571.00	5399590.00	0.06	2	<1	1.6	18.2	8.98	42	22.4	4.92	3.5	2.6	61	11.18
1062	99-RDD-1179	633204.63	5399913.88	0.06	4	<1	1.5	16.9	11.48	38	21.8	4.18	2.3	1.8	77	10.53
1063	99-RDD-1181	630263.00	5401110.00	0.10	4	<1	1.0	32.3	6.84	23	20.6	10.71	1.2	1.6	65	60.30

Site	Sample #	Easting	Northing	Ag	As	Au	Au	Cu	Co	Cr	Ni	Pb	Pd	Pt	Zn	LOI
		NAD83	Method---------->	ICP-MS	INAA	INAA	FA	ICP-MS	ICP-MS	ICP-OES	ICP-MS	ICP-MS	FA	FA	ICP-MS	Grav.
		UTM	Units---------->	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	%
		Zone 16	Detection limit-->	0.02	1	1	0.9	0.5	0.05	4	0.5	0.05	0.9	0.5	1	0.01
1064	99-RDD-1182	625706.44	5400993.49	0.05	16	5	<0.9	19.9	17.29	32	37.2	2.02	2.0	1.8	72	26.14
1065	99-RDD-1183	626052.00	5400150.00	0.10	3	<1	<0.9	26.7	7.15	27	21.4	6.75	1.3	1.3	73	65.53
1066	99-RDD-1184	626907.00	5400320.00	0.10	1	<1	0.9	36.3	6.56	43	27.5	3.90	1.9	1.5	95	51.72
1067	99-RDD-1185	627182.85	5400758.66	0.10	3	<1	0.9	28.9	12.22	33	38.6	4.73	1.4	1.4	71	54.54
1068	99-RDD-1186	632682.43	5400283.65	0.07	2	1	<0.9	11.6	3.34	29	11.8	3.86	1.6	1.5	45	24.12
1069	99-RDD-1187	635645.00	5401230.00	0.14	42	<1	1.4	30.8	17.04	29	23.7	4.92	2.3	1.6	91	50.30
1070	99-RDD-1188	635985.21	5401393.82	0.20	20	5	1.8	43.4	17.34	56	29.3	5.80	2.6	1.8	132	49.77
1071	99-RDD-1189	636999.00	5401460.00	0.14	3	2	1.1	32.0	8.38	30	22.7	7.04	1.8	1.6	87	50.85
1072	99-RDD-1191	636117.00	5402160.00	0.15	60	3	1.3	24.9	17.72	22	18.3	3.67	2.0	1.4	79	50.33
1073	99-RDD-1192	635736.15	5402788.79	0.20	19	1	1.3	41.1	10.88	23	25.0	3.34	2.0	1.5	87	55.21
1074	99-RDD-1193	635263.54	5402797.44	0.27	15	1	1.6	64.1	17.93	46	42.9	7.80	2.5	1.8	109	48.94
1075	99-RDD-1194	634433.00	5402450.00	0.12	2	<1	1.1	25.7	4.58	20	18.7	3.18	1.6	1.2	53	52.14
1076	99-RDD-1195	635710.00	5402820.00	0.13	9	<1	1.2	28.4	5.75	19	17.8	10.29	2.0	1.4	60	52.94
1077	99-RDD-1196	636829.24	5402712.14	0.22	51	3	n/a	46.1	14.14	52	31.0	6.94	n/a	n/a	133	45.20
1078	99-RDD-1197	637035.08	5403371.05	0.32	80	4	n/a	64.3	16.62	65	30.7	6.76	n/a	n/a	130	56.36
1079	99-RDD-1198	636556.94	5403430.20	0.08	4	2	0.9	24.0	7.29	27	26.8	5.94	1.7	1.8	98	42.10
1080	99-RDD-1199	636552.00	5403690.00	0.27	70	4	3.0	73.7	59.84	25	35.1	5.98	3.0	2.8	115	58.25
1081	99-RDD-1201	636539.00	5403970.00	0.17	46	4	3.8	39.8	23.42	32	23.7	6.75	2.1	1.8	108	49.12
1082	99-RDD-1202	637601.94	5402382.55	0.15	3	2	1.4	39.0	4.67	15	18.0	3.64	1.6	1.3	78	59.03
1083	99-RDD-1203	638026.00	5402780.00	0.43	23	10	2.9	82.7	12.46	56	34.9	9.54	4.4	2.2	117	47.31
1084	99-RDD-1204	639026.00	5402750.00	0.27	13	1	1.9	43.5	12.83	32	24.3	7.10	2.4	1.6	85	48.78
1085	99-RDD-1205	639052.00	5403150.00	0.09	6	<1	1.1	36.3	3.44	14	16.1	4.00	1.5	1.6	82	43.13
1086	99-RDD-1206	638999.00	5403560.00	0.14	9	1	1.1	29.0	7.57	32	24.2	6.43	2.2	1.6	91	57.87
1087	99-RDD-1207	638631.00	5401360.00	0.14	4	<1	1.4	47.0	9.22	46	28.4	9.71	2.5	2.0	94	42.10
1089	99-RDD-1209	641340.19	5398383.10	0.14	7	<1	2.2	51.5	19.00	47	42.8	11.09	4.5	2.7	107	24.90
1091	99-RDD-1212	641026.00	5400790.00	0.17	3	3	2.1	62.2	9.24	67	35.2	10.01	3.2	2.3	92	32.64
1092	99-RDD-1213	641329.00	5401200.00	0.09	3	<1	3.7	27.1	8.88	54	22.6	3.84	2.3	2.3	76	15.77
1093	99-RDD-1214	640236.00	5401360.00	0.15	3	1	1.8	41.2	13.09	50	31.8	6.78	2.9	1.9	97	33.53
1094	99-RDD-1215	642875.22	5400232.98	0.12	3	4	3.0	57.7	10.40	49	44.3	6.44	5.1	2.8	126	21.98
1095	99-RDD-1216	643237.00	5399320.00	0.11	2	2	n/a	32.0	5.18	49	20.6	6.11	n/a	n/a	63	23.73
1096	99-RDD-1217	643911.17	5397950.55	0.11	2	2	1.7	29.0	8.79	44	24.9	5.62	2.5	1.7	94	37.75
1097	99-RDD-1218	644746.02	5398677.80	0.14	3	8	3.7	37.5	58.83	57	36.1	7.73	4.5	2.2	185	38.46
1098	99-RDD-1219	646211.00	5398210.00	0.12	2	8	n/a	37.4	9.64	40	25.9	6.73	n/a	n/a	85	44.28
1099	99-RDD-1221	652896.00	5399780.00	0.11	2	3	1.2	30.5	5.65	24	24.4	4.74	2.7	1.8	55	46.36
1100	99-RDD-1222	652527.00	5399830.00	0.13	1	1	3.3	30.6	3.98	25	18.3	4.04	2.2	1.7	50	39.85
1101	99-RDD-1223	660904.00	5398220.00	0.10	2	1	1.2	23.4	7.65	32	17.4	4.72	1.8	1.6	64	36.38
1102	99-RDD-1224	667520.86	5397181.28	0.10	2	1	2.6	25.4	4.77	37	18.3	9.51	2.2	1.8	68	33.44
1103	99-RDD-1225	667264.00	5397680.00	0.12	2	4	1.2	26.3	6.72	29	16.3	4.86	2.0	1.8	81	53.55
1105	99-RDD-1227	676945.00	5396390.00	0.11	2	<1	1.4	35.1	6.32	33	18.4	4.23	2.8	2.7	71	37.74
1106	99-RDD-1228	680438.00	5397880.00	0.12	2	1	1.4	27.3	5.94	27	14.7	4.44	2.3	2.6	56	40.88
1107	99-RDD-1229	681677.00	5396390.00	0.04	<1	<1	n/a	12.5	1.30	12	6.5	1.26	n/a	n/a	21	27.88
1108	99-RDD-1231	678248.00	5400670.00	0.06	2	<1	<0.9	21.2	3.14	12	10.7	3.09	1.6	1.7	65	53.50
1109	99-RDD-1232	674016.00	5401460.00	0.17	2	3	1.4	43.3	9.15	42	29.5	4.29	3.0	2.3	90	38.39
1110	99-RDD-1233	671360.00	5402260.00	0.16	1	4	1.7	50.6	8.74	43	22.4	3.92	2.9	2.4	103	44.25
1111	99-RDD-1234	670650.00	5402230.00	0.05	1	<1	<0.9	21.7	4.48	19	16.8	2.97	1.4	1.4	45	33.16
1112	99-RDD-1235	669976.00	5401850.00	0.10	1	<1	2.9	29.5	4.66	19	14.2	2.20	1.6	1.6	78	56.60
1113	99-RDD-1236	669378.00	5401650.00	0.08	2	<1	<0.9	26.1	3.11	17	14.0	5.95	1.4	1.3	44	43.16
1114	99-RDD-1237	666516.48	5401709.90	0.10	2	<1	1.2	33.1	6.03	45	23.6	4.73	2.6	1.9	74	19.99
1116	99-RDD-1239	660036.13	5401186.51	0.13	3	7	1.1	45.0	16.51	60	39.2	6.56	3.0	1.9	121	23.66
1117	99-RDD-1241	658972.99	5400962.84	0.08	3	<1	1.7	82.0	6.02	34	50.3	4.93	3.8	2.2	61	49.02
1118	99-RDD-1242	658195.00	5401480.00	0.11	2	<1	1.2	28.9	8.40	44	27.0	3.10	1.5	1.5	73	35.61
1119	99-RDD-1243	657588.34	5400958.67	0.14	4	<1	102.7	74.7	9.87	36	51.5	4.49	4.6	2.8	81	46.54
1120	99-RDD-1244	656594.00	5401440.00	0.04	2	2	0.9	11.7	8.99	36	16.0	2.45	1.8	1.5	65	10.48
1122	99-RDD-1246	653435.00	5401450.00	0.04	2	2	1.3	25.6	7.70	41	25.1	4.00	1.9	2.0	78	36.68
1123	99-RDD-1247	652699.00	5401640.00	0.12	5	<1	1.0	38.2	16.39	56	36.4	4.38	2.1	1.8	129	36.94
1124	99-RDD-1248	653146.00	5400810.00	0.11	2	<1	1.3	40.7	6.65	29	17.4	5.71	1.3	1.5	63	59.56
1125	99-RDD-1249	653014.00	5401210.00	0.08	2	<1	1.1	31.2	7.91	23	27.4	4.14	1.8	1.7	65	57.03
1126	99-RDD-1251	652106.00	5400870.00	0.09	2	1	1.0	29.3	12.97	41	26.6	5.54	1.7	1.7	86	35.09
1127	99-RDD-1252	651251.00	5400520.00	0.05	1	1	1.2	26.7	9.19	43	28.3	5.95	2.2	2.0	75	21.85
1128	99-RDD-1253	649698.00	5399980.00	0.18	4	2	1.3	45.7	13.22	41	27.5	10.67	2.2	1.7	120	31.30
1129	99-RDD-1254	648001.00	5399540.00	0.10	2	<1	1.0	33.9	5.45	23	18.3	4.15	1.8	1.5	54	43.78

Site	Sample #	Easting	Northing	Ag	As	Au	Au	Cu	Co	Cr	Ni	Pb	Pd	Pt	Zn	LOI
		NAD83	Method---------->	ICP-MS	INAA	INAA	FA	ICP-MS	ICP-MS	ICP-OES	ICP-MS	ICP-MS	FA	FA	ICP-MS	Grav.
		UTM	Units---------->	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	%
		Zone 18	Detection limit-->	0.02	1	1	0.9	0.5	0.05	4	0.5	0.05	0.9	0.5	1	0.01
1130	99-RDD-1255	647410.51	5400207.68	0.15	2	7	2.0	66.6	10.87	53	40.4	8.34	3.5	2.3	135	26.93
1131	99-RDD-1256	648475.88	5401561.31	0.05	<1	<1	<0.9	24.8	1.53	18	13.6	1.78	1.5	1.5	13	43.48
1132	99-RDD-1257	645941.22	5401398.10	0.16	5	2	2.0	75.4	19.30	57	55.4	6.46	4.1	2.2	140	29.24
1133	99-RDD-1258	641434.00	5401520.00	0.16	2	6	1.8	50.6	10.76	61	31.4	6.80	3.0	2.3	95	28.47
1134	99-RDD-1259	637104.00	5401990.00	0.16	17	6	1.4	34.3	14.32	35	24.1	7.77	2.0	1.4	77	48.23
1135	99-RDD-1261	636723.00	5401900.00	0.20	34	8	1.8	43.2	20.00	58	29.0	4.81	3.0	1.8	106	48.73
1136	99-RDD-1262	639986.00	5402310.00	0.14	3	<1	1.5	61.0	13.32	42	43.9	4.01	2.3	1.8	93	46.43
1137	99-RDD-1263	644974.00	5399710.00	0.14	4	3	2.4	69.2	13.19	54	47.3	6.46	4.2	2.6	144	26.59
1138	99-RDD-1264	646087.92	5397450.35	0.10	4	3	2.0	29.0	6.87	26	21.3	6.19	2.3	1.8	67	54.27
1139	99-RDD-1265	647329.00	5398370.00	0.15	3	2	n/a	39.5	9.00	39	25.6	6.41	n/a	n/a	83	46.36
1141	99-RDD-1267	654471.22	5399716.91	0.24	5	6	2.4	48.0	31.48	45	26.2	22.56	2.2	1.9	107	47.18
1142	99-RDD-1268	653962.00	5400080.00	0.19	2	2	1.3	39.7	9.08	39	24.3	6.21	1.9	1.6	71	49.27
1143	99-RDD-1269	656293.94	5400622.43	0.15	2	1	1.0	41.6	9.03	41	20.9	7.25	2.0	1.9	91	43.35
1144	99-RDD-1271	656364.70	5399271.07	0.19	5	<1	1.0	39.9	10.89	<4	23.1	7.08	4.7	3.8	61	36.11
1145	99-RDD-1272	657612.00	5399130.00	0.10	2	<1	13.0	31.6	7.18	23	17.7	4.16	2.3	1.9	67	61.22
1146	99-RDD-1273	657612.00	5399850.00	0.10	<1	<1	<0.9	26.0	2.44	15	13.0	2.77	1.5	1.4	35	42.79
1147	99-RDD-1274	658674.00	5399760.00	0.13	2	1	<0.9	33.5	8.00	28	19.5	6.36	1.6	1.7	52	32.98
1148	99-RDD-1275	659587.00	5399280.00	0.13	3	<1	1.3	31.3	22.81	48	27.4	6.68	3.4	2.3	96	22.88
1149	99-RDD-1276	659108.00	5400460.00	0.09	2	1	1.0	40.6	7.26	41	30.5	4.94	2.4	1.7	71	43.85
1150	99-RDD-1277	661770.12	5400576.12	0.10	<1	<1	<0.9	26.0	3.50	23	15.1	3.35	1.8	2.2	28	46.01
1151	99-RDD-1278	662616.22	5400364.12	0.07	3	<1	n/a	16.6	1.59	11	10.3	4.20	n/a	n/a	177	79.16
1152	99-RDD-1279	662774.00	5398940.00	0.15	2	<1	<0.9	27.1	10.51	37	15.9	6.91	2.0	1.6	84	41.91
1153	99-RDD-1281	664076.00	5398740.00	0.12	2	1	1.1	23.1	5.09	26	14.4	5.88	2.2	1.9	48	50.32
1154	99-RDD-1282	664645.00	5398520.00	0.12	3	<1	1.3	26.7	4.44	20	13.0	9.31	1.9	2.1	70	50.46
1155	99-RDD-1283	665513.00	5399180.00	0.09	2	2	1.2	24.9	6.09	28	19.0	6.15	2.1	1.8	65	45.92
1156	99-RDD-1284	666628.00	5399200.00	0.13	1	3	1.5	33.6	8.47	31	21.3	5.20	2.5	1.9	96	50.81
1157	99-RDD-1285	670762.00	5399080.00	0.13	2	1	1.2	35.8	11.21	39	21.0	5.07	2.3	1.9	95	38.34
1158	99-RDD-1286	671061.00	5399480.00	0.15	2	2	1.8	46.5	3.30	20	19.7	3.25	2.3	1.6	88	50.53
1159	99-RDD-1287	671323.00	5399370.00	0.15	4	2	1.3	35.5	18.39	23	17.5	3.01	2.9	2.0	81	46.07
1160	99-RDD-1288	677395.00	5398930.00	0.15	4	2	1.9	25.7	10.49	30	15.6	4.58	3.0	2.5	85	44.76
1161	99-RDD-1289	676878.00	5398730.00	0.19	5	<1	1.2	29.9	16.54	32	17.2	5.20	3.1	2.3	104	44.40
1162	99-RDD-1291	678860.00	5399450.00	0.06	3	2	1.6	16.9	5.70	21	12.4	5.14	3.1	2.8	43	40.32
1163	99-RDD-1292	680035.00	5396350.00	0.12	1	1	1.9	33.0	3.30	15	12.9	3.06	2.2	1.9	71	61.21
1164	99-RDD-1293	686184.00	5395810.00	0.10	1	1	1.4	27.3	3.80	31	16.7	3.93	2.7	2.3	58	45.10
1165	99-RDD-1294	684097.65	5397154.92	0.12	5	4	1.6	24.5	16.59	31	18.2	6.13	3.2	2.7	95	45.82
1166	99-RDD-1295	682321.00	5396500.00	0.09	4	<1	1.5	28.5	9.07	33	17.2	2.56	3.5	2.4	102	50.40
1167	99-RDD-1296	678055.00	5395920.00	0.17	2	<1	2.5	34.2	8.89	36	20.3	5.42	3.0	2.3	88	40.85
1168	99-RDD-1297	677366.07	5395412.97	0.19	3	1	1.8	44.3	6.96	44	23.5	5.72	3.5	2.6	90	47.29
1169	99-RDD-1298	674659.16	5395105.53	0.16	4	1	2.1	29.7	11.45	35	19.7	8.87	3.2	2.3	95	38.75
1170	99-RDD-1299	674578.00	5393650.00	0.07	3	2	1.0	35.2	9.79	23	23.4	2.20	3.4	2.4	66	23.04
1171	99-RDD-1301	672550.00	5392860.00	0.19	2	<1	1.4	39.4	10.14	34	22.1	8.08	2.5	2.3	106	47.64
1172	99-RDD-1302	671198.00	5392570.00	0.17	3	3	1.6	39.3	16.11	51	25.7	6.22	3.1	2.5	114	41.46
1173	99-RDD-1303	671359.00	5393230.00	0.13	2	1	1.2	28.2	7.69	31	23.3	4.92	2.5	2.3	93	54.52
1174	99-RDD-1304	670200.00	5393180.00	0.19	2	<1	1.3	33.4	6.55	25	21.9	4.15	2.4	2.1	68	53.82
1175	99-RDD-1305	665081.72	5391993.27	0.06	1	<1	1.4	14.4	6.06	30	15.9	3.74	3.1	2.7	58	21.42
1176	99-RDD-1306	664972.18	5392431.28	0.10	<1	<1	2.8	18.2	13.00	36	20.9	3.95	2.8	2.7	85	25.89
1177	99-RDD-1307	663956.00	5392890.00	0.14	1	1	1.0	26.5	2.68	18	13.1	3.12	2.3	2.3	43	38.63
1178	99-RDD-1308	662131.00	5391960.00	0.09	2	<1	<0.9	24.2	5.92	26	23.8	4.81	1.2	1.5	56	49.31
1179	99-RDD-1309	661622.00	5392560.00	0.10	2	<1	1.7	40.0	11.12	35	34.5	4.16	2.6	2.9	88	53.40
1180	99-RDD-1311	661158.00	5393010.00	0.11	2	3	0.9	36.7	10.42	44	35.1	3.97	3.3	3.1	74	43.08
1181	99-RDD-1312	660664.00	5393070.00	0.09	<1	2	<0.9	31.0	6.14	21	22.7	3.31	<0.9	1.1	57	49.58
1182	99-RDD-1313	661607.00	5393640.00	0.12	4	6	1.3	39.5	17.39	69	40.4	4.43	2.5	2.3	106	43.38
1183	99-RDD-1314	660814.00	5393420.00	0.09	2	1	1.2	27.4	9.67	42	27.5	4.10	2.4	4.6	77	40.45
1184	99-RDD-1315	660440.00	5393840.00	0.07	1	<1	1.1	23.5	2.63	21	13.4	2.46	2.2	2.4	35	41.41
1185	99-RDD-1316	659886.00	5393540.00	0.07	2	<1	1.5	27.1	7.88	23	17.8	5.00	2.5	2.2	61	56.49
1186	99-RDD-1317	659273.00	5393150.00	0.11	2	4	8.0	38.9	7.62	49	26.0	5.57	3.2	2.5	86	39.52
1187	99-RDD-1318	659512.00	5392620.00	0.07	2	1	1.8	24.3	7.69	44	25.1	4.17	2.8	2.3	83	27.90
1188	99-RDD-1319	659123.00	5392230.00	0.07	4	2	1.2	23.3	14.49	42	32.3	3.50	3.0	2.3	94	21.31
1190	99-RDD-1322	658224.20	5392317.82	0.06	2	2	1.6	19.7	3.79	24	17.9	3.80	2.1	1.8	42	33.89
1191	99-RDD-1323	658169.39	5391803.31	0.08	1	2	1.6	26.6	8.82	38	37.5	4.54	2.4	2.2	80	36.59
1192	99-RDD-1324	657369.20	5391875.39	0.09	3	4	1.3	31.0	18.64	62	41.0	4.59	2.9	2.5	101	32.43

Site	Sample #	Easting	Northing	Ag	As	Au	Au	Cu	Co	Cr	Ni	Pb	Pd	Pt	Zn	LOI
		NAD83	Method---------->	ICP-MS	INAA	INAA	FA	ICP-MS	ICP-MS	ICP-OES	ICP-MS	ICP-MS	FA	FA	ICP-MS	Grav.
		UTM	Units---------->	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	%
		Zone 15	Detection limit-->	0.02	1	1	0.9	0.5	0.05	4	0.5	0.05	0.9	0.5	1	0.01
1193	99-RDD-1325	656896.00	5391570.00	n/a	3	<1	2.2	n/a	n/a	n/a	n/a	n/a	3.1	2.3	n/a	36.68
1194	99-RDD-1326	656383.00	5391660.00	0.14	2	3	2.1	40.3	19.82	63	41.2	6.29	3.2	2.5	119	39.20
1195	99-RDD-1327	655594.00	5391860.00	0.09	2	2	1.0	30.3	19.77	57	37.6	4.76	3.2	2.9	102	29.35
1196	99-RDD-1328	654830.00	5391650.00	0.10	4	3	1.5	27.0	11.47	48	30.1	10.18	2.6	2.3	89	32.38
1197	99-RDD-1329	654146.00	5391060.00	0.09	2	4	1.5	23.3	12.46	43	24.2	3.99	2.5	3.5	72	37.65
1198	99-RDD-1331	654422.00	5390380.00	0.13	2	<1	1.5	29.7	3.10	17	16.4	3.26	2.1	2.5	62	52.70
1199	99-RDD-1332	653616.64	5390910.11	0.10	2	<1	1.3	29.4	8.30	38	29.6	3.81	2.4	2.0	62	39.75
1200	99-RDD-1333	651738.00	5389860.00	0.08	2	2	2.0	25.4	4.54	28	21.4	6.30	2.5	2.1	52	41.50
1202	99-RDD-1335	650763.96	5389750.40	0.18	3	<1	2.2	45.1	19.74	51	33.3	7.10	3.4	2.9	112	33.94
1203	99-RDD-1336	651455.47	5390515.47	0.09	2	4	1.4	28.7	9.40	38	24.4	7.28	2.9	2.2	75	36.25
1205	99-RDD-1338	651633.00	5391580.00	0.09	2	<1	1.2	25.9	12.63	41	29.0	4.17	3.2	2.7	100	30.75
1206	99-RDD-1339	650948.00	5392130.00	0.08	2	2	1.2	20.9	2.87	18	14.5	3.62	2.0	2.0	51	54.59
1207	99-RDD-1341	650567.00	5392310.00	0.08	3	<1	2.0	47.7	12.60	27	38.5	2.80	4.4	3.6	73	36.96
1208	99-RDD-1342	650454.63	5392610.59	0.13	3	2	1.2	27.9	17.70	42	20.8	8.52	2.6	2.5	76	50.42
1209	99-RDD-1343	651287.20	5392922.28	0.08	2	<1	2.1	22.0	12.42	42	22.4	4.66	3.1	2.7	88	34.15
1210	99-RDD-1344	651856.00	5393120.00	0.11	2	3	n/a	22.6	10.01	39	19.0	6.49	n/a	n/a	74	41.44
1211	99-RDD-1345	652988.00	5393120.00	0.10	<1	1	n/a	18.8	2.76	17	11.5	2.68	n/a	n/a	39	51.30
1212	99-RDD-1346	653738.00	5392570.00	0.13	2	<1	n/a	26.7	6.35	33	18.8	5.06	n/a	n/a	70	46.53
1213	99-RDD-1347	653936.00	5393350.00	0.09	1	2	n/a	20.6	3.00	22	15.1	2.74	n/a	n/a	59	55.11
1214	99-RDD-1348	654709.00	5392950.00	0.11	1	<1	n/a	26.5	3.66	28	16.6	3.60	n/a	n/a	50	50.02
1216	99-RDD-1351	656765.00	5393070.00	0.11	3	<1	1.5	36.8	12.66	63	36.2	6.93	2.4	2.4	97	38.30
1217	99-RDD-1352	659380.34	5393821.45	0.13	3	1	1.4	38.0	26.94	52	32.4	7.17	2.3	2.3	126	37.22
1218	99-RDD-1353	661278.00	5395390.00	0.10	2	4	1.1	26.3	11.56	48	30.4	4.82	2.2	2.1	91	35.21
1219	99-RDD-1354	663383.39	5394354.29	0.13	2	5	1.1	36.5	5.77	49	23.1	6.66	2.4	2.2	70	39.13
1220	99-RDD-1355	668655.00	5394310.00	0.18	2	<1	1.2	37.7	3.53	15	13.1	2.99	2.0	2.5	45	45.79
1221	99-RDD-1356	670442.00	5395160.00	0.15	2	2	1.2	68.5	5.83	23	17.0	3.24	2.7	2.6	80	44.53
1222	99-RDD-1357	670731.00	5394440.00	0.10	1	1	1.0	34.0	6.40	44	27.1	4.68	2.6	2.3	82	22.89
1223	99-RDD-1358	671601.00	5394580.00	0.12	3	2	1.0	45.2	10.14	35	23.7	6.64	2.6	2.4	132	34.99
1224	99-RDD-1359	671840.52	5394924.55	0.14	2	<1	1.3	41.6	8.65	40	21.6	8.24	2.7	2.3	138	31.99
1225	99-RDD-1361	672796.17	5394604.68	0.17	2	<1	1.5	41.0	4.92	20	15.3	4.61	2.0	1.8	106	63.93
1226	99-RDD-1362	684945.00	5396560.00	0.09	2	1	1.2	28.0	5.55	23	22.5	4.76	2.6	2.7	55	42.96
1227	99-RDD-1363	632125.12	5397544.20	0.08	5	1	1.9	37.8	12.11	49	38.3	6.56	3.8	2.8	117	16.42
1228	99-RDD-1364	635287.66	5396659.77	0.10	5	<1	3.8	30.7	8.29	52	27.9	7.24	2.8	2.4	93	18.80
1229	99-RDD-1365	636277.00	5396490.00	0.08	2	1	1.7	25.9	7.62	51	26.6	5.24	2.6	2.5	87	18.75
1230	99-RDD-1366	637371.23	5396827.42	0.08	3	<1	2.5	22.6	9.18	51	29.9	6.22	2.7	2.6	91	16.92
1231	99-RDD-1367	638168.29	5396768.02	0.08	2	<1	1.0	21.8	8.43	53	27.6	6.79	2.6	2.4	85	20.67
1232	99-RDD-1368	638711.00	5396940.00	0.09	2	<1	0.9	21.9	9.42	48	29.6	7.18	3.0	2.4	81	29.14
1234	99-RDD-1371	634695.14	5395178.49	0.07	4	2	2.9	22.9	10.91	45	27.9	5.78	3.2	2.8	90	11.42
1235	99-RDD-1372	635589.66	5394850.35	0.08	3	<1	2.0	30.1	5.43	34	22.6	6.62	2.4	4.2	64	35.40
1236	99-RDD-1373	635830.89	5399123.82	0.10	7	<1	1.4	26.8	9.27	49	25.4	5.69	2.4	2.4	82	17.53
1237	99-RDD-1374	636539.31	5399457.50	0.11	1	1	1.5	27.4	9.01	52	28.4	6.81	2.9	2.4	84	17.83
1238	99-RDD-1375	637037.06	5398912.01	0.08	6	3	1.9	26.2	16.32	56	31.6	5.98	2.6	2.5	100	14.11
1240	99-RDD-1377	638231.53	5398065.09	0.09	2	1	1.4	26.8	9.84	47	28.7	7.68	2.7	2.5	78	18.44
1241	99-RDD-1378	637009.78	5397622.89	0.07	2	<1	2.7	27.2	9.26	42	27.0	5.06	3.0	2.6	62	15.78
1242	99-RDD-1379	641874.80	5392516.41	0.07	2	<1	1.2	19.5	13.06	39	24.5	4.28	2.6	2.3	88	12.45
1243	99-RDD-1381	628920.27	5397371.65	0.06	7	2	1.4	70.5	8.86	36	57.0	5.81	3.5	2.3	87	44.99
1244	99-RDD-1382	627364.49	5396832.08	0.08	<1	<1	1.4	27.6	8.60	45	28.4	5.39	3.1	2.6	75	14.59
1245	99-RDD-1383	631345.65	5393808.39	0.11	2	1	1.2	25.7	6.24	37	21.2	7.48	2.9	2.2	76	31.07
1246	99-RDD-1384	631178.90	5394356.48	0.11	3	<1	1.3	23.4	5.98	33	22.3	7.75	2.6	1.9	75	28.94
1247	99-RDD-1385	630282.27	5393856.91	0.06	2	1	1.3	15.9	7.25	29	18.5	4.72	2.6	2.2	70	14.27
1248	99-RDD-1386	629370.42	5394436.41	0.08	3	4	1.4	23.2	14.72	38	28.3	5.76	3.3	2.5	96	12.94
1249	99-RDD-1387	628539.82	5394183.25	0.12	3	2	1.7	25.6	13.09	41	24.9	7.93	3.0	3.1	106	25.55
1250	99-RDD-1388	628765.03	5393467.72	0.15	3	2	0.9	28.0	7.71	40	22.4	9.70	1.2	1.0	86	29.55
1251	99-RDD-1389	629147.44	5392958.02	0.09	3	3	1.2	20.7	13.19	38	24.6	6.14	2.8	2.1	101	17.01
1252	99-RDD-1391	675367.00	5386580.00	0.18	4	<1	6.7	136.6	16.45	34	41.7	5.56	6.1	3.7	156	23.83
1253	99-RDD-1392	673384.51	5383945.81	0.12	3	2	9.3	80.3	11.32	36	28.6	4.62	5.2	4.2	115	14.37
1254	99-RDD-1393	674157.63	5382925.59	0.12	2	6	6.0	82.8	12.46	34	35.2	4.14	5.8	4.5	117	10.08
1256	99-RDD-1395	662700.00	5394940.00	0.07	3	2	1.3	28.9	9.89	43	29.7	5.90	3.8	3.5	105	21.67
1257	99-RDD-1396	663177.30	5395543.53	0.08	2	3	<0.9	25.4	6.44	45	23.2	5.60	2.7	2.2	81	26.13
1258	99-RDD-1397	664085.91	5395399.29	0.08	2	3	5.8	30.3	21.95	41	36.2	6.32	3.8	3.0	112	19.09
1261	99-RDD-1401	689336.26	5392574.63	0.14	4	2	2.0	40.1	11.28	42	22.1	7.21	4.2	2.9	112	40.15

Site	Sample #	Easting	Northing	Ag	As	Au	Au	Cu	Co	Cr	Ni	Pb	Pd	Pt	Zn	LOI
		NAD83	Method---------->	ICP-MS	INAA	INAA	FA	ICP-MS	ICP-MS	ICP-OES	ICP-MS	ICP-MS	FA	FA	ICP-MS	Grav.
		UTM	Units---------->	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	%
		Zone 15	Detection limit-->	0.02	1	1	0.9	0.5	0.05	4	0.5	0.05	0.9	0.5	1	0.01
1262	99-RDD-1402	690765.67	5393082.37	0.12	2	3	5.1	39.6	7.40	45	27.2	6.87	4.8	3.8	91	35.99
1263	99-RDD-1403	691662.12	5394210.62	0.11	3	3	1.2	29.9	7.67	40	22.3	6.90	4.6	2.8	84	28.44
1264	99-RDD-1404	691198.77	5394606.52	0.09	2	<1	1.4	28.7	12.78	39	25.8	5.48	4.8	3.1	103	22.86
1266	99-RDD-1406	689442.75	5396121.81	0.07	1	<1	8.0	21.9	10.96	35	24.0	3.29	5.0	3.2	88	20.86
1267	99-RDD-1407	690401.00	5398160.00	0.05	4	<1	4.7	56.8	9.96	24	35.9	3.66	7.1	3.3	49	22.15
1269	99-RDD-1409	691637.72	5397712.99	0.08	3	3	4.5	22.8	11.06	38	24.0	3.30	5.5	4.5	81	15.45
1270	99-RDD-1411	691649.96	5399469.87	0.08	1	2	<0.9	29.0	15.14	41	28.0	4.13	5.0	3.2	91	14.65
1271	99-RDD-1412	691705.00	5401330.00	0.07	2	<1	0.9	31.2	21.67	31	35.1	3.54	5.3	3.6	98	13.77
1273	99-RDD-1414	691882.00	5396720.00	0.11	2	<1	2.1	27.8	8.24	41	23.2	5.94	5.1	3.9	83	24.46
1274	99-RDD-1415	693139.44	5396441.98	0.09	3	2	1.5	27.9	12.42	39	24.4	4.62	4.4	2.3	99	25.69
1275	99-RDD-1416	692505.00	5395267.89	0.12	3	3	1.8	31.3	24.55	29	29.1	8.94	4.7	2.4	112	27.59
1277	99-RDD-1418	711667.46	5388424.21	0.09	3	3	2.0	47.0	17.57	48	39.3	7.32	6.1	3.6	86	10.66
1278	99-RDD-1419	709935.40	5388585.37	0.12	4	<1	3.0	39.7	15.90	58	38.2	7.74	6.3	3.7	120	19.35
1279	99-RDD-1421	708450.26	5387113.62	0.07	3	<1	1.9	43.5	12.54	36	34.0	6.67	6.5	3.7	65	24.33
1280	99-RDD-1422	707962.79	5388036.09	0.11	2	3	3.4	42.0	12.54	55	37.3	7.19	6.2	4.0	104	23.17
1281	99-RDD-1423	706669.27	5387477.98	0.11	3	4	2.0	58.9	13.74	56	43.7	7.42	6.5	3.5	108	23.46
1282	99-RDD-1424	704686.49	5387278.42	0.09	2	3	2.6	47.9	13.58	49	35.4	6.44	6.7	3.5	97	18.25
1283	99-RDD-1425	701862.00	5386910.00	0.11	3	4	2.7	65.0	13.66	56	43.0	6.63	7.8	3.8	113	26.80
1285	99-RDD-1427	700462.00	5385680.00	0.07	4	2	1.8	44.2	8.52	35	35.1	3.82	5.6	2.6	73	48.27
1287	99-RDD-1429	703065.72	5391466.07	0.10	3	3	3.1	62.2	20.64	48	42.2	7.78	7.7	3.7	125	21.45
1289	99-RDD-1432	700075.00	5391240.00	0.11	4	<1	2.9	68.8	23.02	43	49.9	6.45	8.0	3.6	131	21.74
1290	99-RDD-1433	698697.96	5391379.08	0.12	4	<1	3.1	67.5	23.73	41	44.5	7.14	7.8	3.5	133	26.75
1291	99-RDD-1434	697329.47	5391863.60	0.14	2	<1	2.8	57.4	7.99	46	28.9	10.26	5.7	2.7	92	29.46
1292	99-RDD-1435	695090.35	5391505.81	0.15	4	<1	n/a	74.9	9.37	57	37.5	5.88	n/a	n/a	110	33.82
1293	99-RDD-1436	695134.00	5390450.00	0.13	2	3	3.8	52.1	6.46	38	22.6	9.49	5.1	2.7	72	29.07
1294	99-RDD-1437	693264.20	5390141.09	0.12	2	<1	n/a	54.0	9.05	45	27.5	5.10	n/a	n/a	90	29.31
1295	99-RDD-1438	693081.02	5389182.34	0.04	2	4	2.1	30.5	17.55	30	32.5	3.34	6.3	3.8	89	10.96
1296	99-RDD-1439	691268.22	5389993.64	0.10	3	<1	1.8	44.5	19.01	25	32.3	6.36	5.2	2.8	109	24.68
1297	99-RDD-1441	689952.68	5390499.17	0.12	3	2	2.7	44.4	12.92	44	29.4	7.46	5.0	2.9	114	26.28
1298	99-RDD-1442	691067.29	5391463.15	0.09	2	3	3.1	37.0	17.09	47	29.8	4.14	7.2	8.1	115	21.19
1299	99-RDD-1443	692503.32	5392348.17	0.11	2	<1	2.3	36.1	7.38	40	22.8	4.02	5.2	3.3	81	25.09
1300	99-RDD-1444	687166.00	5392090.00	0.05	<1	78	1.4	11.7	6.19	24	13.5	3.10	3.2	2.5	43	13.04
1301	99-RDD-1445	688439.69	5390005.97	0.12	3	2	2.9	46.2	8.68	45	27.7	11.23	5.2	3.2	101	31.04
1302	99-RDD-1446	684156.00	5386990.00	0.05	6	3	3.0	41.0	5.56	12	23.8	6.42	6.9	3.7	51	72.28
1303	99-RDD-1447	683625.62	5386433.31	0.06	4	<1	3.0	62.2	7.25	26	31.3	4.55	8.8	4.1	59	41.58
1304	99-RDD-1448	682937.25	5385753.40	0.06	3	<1	2.6	60.8	4.86	22	28.3	2.46	6.1	3.0	59	52.89
1305	99-RDD-1449	683272.62	5384913.69	0.12	4	3	3.3	56.9	9.79	49	35.9	6.89	6.0	3.4	105	37.45
1306	99-RDD-1451	682289.00	5383940.00	0.07	4	3	2.7	63.9	7.59	33	36.1	4.92	6.3	2.9	77	46.67
1307	99-RDD-1452	681725.00	5383330.00	0.11	3	2	2.7	55.3	9.51	54	36.0	4.92	6.2	3.5	103	40.44
1308	99-RDD-1453	683982.35	5385597.05	0.08	3	2	2.1	63.0	7.35	33	33.6	3.50	6.6	3.2	70	46.12
1309	99-RDD-1454	678635.00	5398130.00	0.09	<1	<1	1.1	19.4	3.84	20	10.3	7.54	2.9	2.5	40	41.24
1310	99-RDD-1455	674935.03	5397960.56	0.15	3	<1	1.9	33.7	12.83	34	19.4	4.14	3.8	2.4	78	41.58
1311	99-RDD-1456	675120.00	5397200.00	0.10	3	2	1.6	24.3	6.77	34	17.2	7.04	3.5	3.4	91	34.33
1312	99-RDD-1457	674540.00	5396240.00	0.06	2	3	2.3	18.2	10.86	32	18.0	3.17	3.9	2.8	84	15.59
1313	99-RDD-1458	672988.00	5395700.00	0.16	2	<1	1.5	27.4	3.07	18	12.3	7.27	2.5	2.6	78	43.65
1314	99-RDD-1459	671080.00	5395870.00	0.09	2	<1	1.4	25.5	1.44	7	6.8	2.46	2.1	2.1	38	65.65
1315	99-RDD-1461	669789.00	5397080.00	0.22	2	5	2.3	42.9	18.02	35	20.7	6.41	3.7	2.8	78	40.01
1318	99-RDD-1464	667088.14	5396828.36	0.09	3	1	1.7	30.8	4.50	27	17.5	9.89	3.2	2.9	63	38.81
1319	99-RDD-1465	666927.65	5397430.47	0.12	4	<1	4.1	63.6	13.07	40	44.9	6.07	5.8	3.3	94	42.76
1321	99-RDD-1467	665782.00	5396810.00	0.09	2	<1	1.2	30.2	3.82	31	18.6	8.27	3.2	2.7	65	34.08
1323	99-RDD-1469	664525.00	5396510.00	0.11	2	<1	2.0	32.2	5.24	30	18.2	7.46	3.3	2.4	71	40.83
1324	99-RDD-1471	664211.00	5396230.00	0.14	3	1	2.6	31.2	9.59	28	18.5	4.99	2.9	2.2	96	50.10
1325	99-RDD-1472	663672.00	5396110.00	0.08	2	2	1.7	25.4	9.22	30	22.8	3.64	2.9	1.8	78	45.25
1326	99-RDD-1473	662041.00	5396060.00	0.18	4	<1	1.3	31.6	50.04	37	21.0	8.27	3.1	2.1	71	51.21
1327	99-RDD-1474	661293.00	5396560.00	0.19	3	<1	2.2	32.1	12.11	34	16.0	9.31	2.9	2.1	77	53.80
1328	99-RDD-1475	660694.00	5396020.00	0.10	4	<1	2.2	25.6	9.00	38	27.3	5.26	3.1	2.3	73	35.56
1329	99-RDD-1476	660380.00	5396380.00	0.10	1	1	1.2	21.0	1.88	10	7.9	2.08	3.2	2.2	38	54.40
1330	99-RDD-1477	659850.06	5395515.04	0.09	3	2	1.3	24.9	7.52	31	20.4	4.63	2.3	1.7	69	52.37
1331	99-RDD-1478	657441.64	5394416.28	0.09	2	1	1.6	30.8	12.16	36	30.3	3.90	2.9	1.9	71	57.57
1332	99-RDD-1479	657163.00	5396050.00	0.16	3	2	1.7	30.8	16.46	41	20.5	5.30	2.9	2.3	89	43.72
1333	99-RDD-1481	656804.00	5396800.00	0.05	1	<1	1.1	12.5	3.27	20	12.7	4.73	2.6	2.0	32	23.53

Site	Sample #	Easting	Northing	Ag	As	Au	Au	Cu	Co	Cr	Ni	Pb	Pd	Pt	Zn	LOI
		NAD83	Method---------->	ICP-MS	INAA	INAA	FA	ICP-MS	ICP-MS	ICP-OES	ICP-MS	ICP-MS	FA	FA	ICP-MS	Grav.
		UTM	Units---------->	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	%
		Zone 15	Detection limit-->	0.02	1	1	0.9	0.5	0.05	4	0.5	0.05	0.9	0.5	1	0.01
1334	99-RDD-1482	655936.00	5397130.00	0.17	2	<1	3.0	29.6	17.24	37	19.2	6.13	3.5	2.3	78	41.13
1335	99-RDD-1483	653580.00	5396110.00	0.09	2	1	1.4	21.5	7.34	25	20.7	5.13	2.7	2.2	55	52.42
1336	99-RDD-1484	653612.56	5394361.15	0.06	2	1	1.5	20.3	8.49	43	26.6	4.48	2.7	1.5	78	36.30
1337	99-RDD-1485	652271.70	5394701.36	0.10	3	<1	1.5	18.3	7.84	33	17.6	9.16	2.9	1.9	59	38.29
1338	99-RDD-1486	651593.00	5395480.00	0.07	1	<1	<0.9	17.4	3.37	20	14.9	3.70	2.7	2.1	34	51.17
1340	99-RDD-1488	650913.67	5393978.66	0.12	1	<1	2.0	28.7	7.86	27	31.7	4.52	4.8	3.5	86	51.48
1341	99-RDD-1489	647329.00	5394710.00	0.05	2	2	1.5	14.3	2.18	18	11.6	6.09	3.1	2.2	25	54.35
1342	99-RDD-1491	647369.00	5395040.00	0.22	4	<1	2.9	37.9	16.05	44	22.1	17.44	3.4	2.0	80	42.48
1343	99-RDD-1492	647816.00	5395280.00	0.09	<1	<1	2.1	29.4	14.16	68	29.9	5.59	4.1	2.9	95	28.09
1344	99-RDD-1493	648290.00	5396140.00	0.15	<1	2	3.6	34.4	10.22	53	30.0	6.75	3.5	2.4	91	28.80
1345	99-RDD-1494	648961.00	5396520.00	0.17	2	4	2.3	33.3	9.34	44	23.8	8.29	3.6	2.3	82	32.53
1346	99-RDD-1495	648501.00	5396910.00	0.21	1	<1	2.6	36.3	4.79	29	21.9	6.55	2.8	2.0	65	46.41
1347	99-RDD-1496	648237.00	5397450.00	0.25	<1	2	3.7	56.0	13.43	36	27.3	5.06	3.7	2.7	72	45.80
1348	99-RDD-1497	649659.00	5397710.00	0.11	4	6	3.4	35.1	14.91	54	33.3	6.86	5.0	3.1	107	16.16
1351	99-RDD-1501	655580.00	5397540.00	0.10	2	1	1.7	25.9	7.34	31	22.5	5.31	2.5	1.8	69	39.20
1352	99-RDD-1502	658182.49	5398425.32	0.15	3	1	1.9	29.1	10.78	45	22.4	6.52	3.6	2.8	81	21.85
1354	99-RDD-1504	663238.00	5397460.00	0.10	<1	1	4.2	23.7	3.15	19	13.3	3.42	3.1	2.0	52	42.45
1355	99-RDD-1505	664106.00	5397770.00	0.14	3	1	14.8	34.7	5.80	33	18.5	6.90	4.9	3.3	81	38.92
1356	99-RDD-1506	668193.59	5397576.16	0.13	2	<1	7.3	37.4	3.51	14	11.7	3.63	3.2	2.4	83	58.64
1357	99-RDD-1507	667227.00	5398000.00	0.06	2	2	3.2	22.0	6.88	24	21.3	3.83	3.4	2.5	54	20.70
1358	99-RDD-1508	666404.00	5398240.00	0.10	3	1	2.0	23.0	6.84	27	15.7	5.51	3.1	2.3	74	53.27
1359	99-RDD-1509	667302.00	5398690.00	0.10	2	2	2.0	25.1	5.33	26	16.9	3.55	3.3	2.1	69	45.32
1360	99-RDD-1511	666871.00	5398490.00	0.11	2	1	2.4	26.5	7.50	22	18.0	4.03	3.7	2.7	77	46.91
1361	99-RDD-1512	666703.00	5398730.00	0.19	3	<1	4.6	32.3	4.58	19	14.9	4.93	3.4	2.0	64	55.22
1362	99-RDD-1513	669855.57	5397710.80	0.13	4	2	2.9	41.2	14.78	<4	29.0	5.96	4.7	3.5	112	25.13
1363	99-RDD-1514	669698.87	5398241.52	0.10	2	3	3.0	31.6	14.00	40	28.6	5.51	4.7	2.8	102	17.96
1364	99-RDD-1515	670472.62	5397610.55	0.08	2	2	2.2	14.9	5.80	27	18.8	5.26	3.0	2.8	56	26.38
1365	99-RDD-1516	672294.37	5397384.37	0.07	<1	2	2.9	14.8	16.67	18	20.9	2.38	3.9	2.8	78	20.36
1366	99-RDD-1517	674603.05	5398445.80	0.04	3	<1	2.0	25.2	2.62	12	8.2	2.47	4.8	2.2	50	43.32
1367	99-RDD-1518	674947.96	5399529.86	0.13	2	2	n/a	44.5	6.76	30	23.7	4.10	n/a	n/a	91	53.00
1368	99-RDD-1519	678023.00	5399940.00	0.11	3	1	1.1	20.9	10.94	27	14.4	4.15	2.8	2.0	73	37.16
1369	99-RDD-1521	676803.00	5399960.00	0.06	2	<1	1.3	22.0	7.46	27	21.6	3.23	2.6	2.2	65	33.55
1370	99-RDD-1522	676037.00	5399910.00	0.10	3	<1	1.6	29.6	8.40	30	24.4	4.61	3.4	2.5	77	42.43
1371	99-RDD-1523	676370.64	5400604.37	0.13	5	<1	2.4	36.6	11.10	19	22.6	5.53	5.1	2.9	93	44.04
1372	99-RDD-1524	674671.74	5400464.17	0.11	4	<1	1.4	27.1	8.72	23	20.5	3.12	3.6	2.0	77	31.48
1373	99-RDD-1525	673898.53	5399153.72	0.20	3	5	2.6	51.8	8.24	41	24.5	4.24	3.9	2.8	92	39.34
1374	99-RDD-1526	673509.86	5398571.95	0.17	5	2	3.1	45.4	11.28	47	28.4	4.52	3.8	2.4	125	37.56
1375	99-RDD-1527	673892.09	5398158.27	0.15	6	2	3.8	36.2	20.96	30	20.6	8.29	3.5	2.3	91	43.71
1376	99-RDD-1528	672079.54	5399293.92	0.14	2	2	3.1	27.8	22.00	25	16.0	4.11	2.9	2.1	65	48.51
1377	99-RDD-1529	672309.56	5398569.36	0.13	2	2	2.1	33.1	9.78	37	21.0	5.84	2.6	1.8	83	38.37
1378	99-RDD-1531	672655.81	5398366.02	0.13	2	<1	4.6	32.7	9.18	35	20.7	8.46	<0.9	<0.5	83	38.33
1379	99-RDD-1532	671894.52	5398182.90	0.04	<1	2	1.7	14.7	4.55	23	15.5	4.54	2.8	2.1	45	16.82
1380	99-RDD-1533	671174.24	5398106.32	0.09	2	2	n/a	30.4	8.11	39	27.1	6.65	n/a	n/a	73	27.16
1381	99-RDD-1534	669827.00	5399850.00	0.11	<1	<1	n/a	21.3	1.75	15	8.9	3.00	n/a	n/a	30	33.90
1382	99-RDD-1535	669322.00	5399050.00	0.18	2	2	1.8	38.3	8.29	36	20.2	5.68	2.7	2.4	108	42.03
1383	99-RDD-1536	668809.98	5397978.00	0.13	4	1	1.8	40.8	17.11	35	29.8	8.70	3.5	2.5	117	31.56
1384	99-RDD-1537	668349.00	5399230.00	0.13	2	4	3.7	36.2	10.33	42	28.4	3.88	3.4	2.1	107	34.10
1385	99-RDD-1538	667189.00	5399400.00	0.08	2	<1	n/a	21.6	3.93	18	17.7	5.56	n/a	n/a	64	60.31
1386	99-RDD-1539	666553.00	5399870.00	0.09	2	<1	<0.9	24.9	4.61	19	17.3	2.99	1.7	2.0	57	50.02
1387	99-RDD-1541	666248.42	5399604.38	0.09	3	<1	<0.9	26.0	5.99	20	19.8	4.91	1.4	1.4	64	48.92
1388	99-RDD-1542	664645.00	5400020.00	0.14	2	<1	2.4	35.3	12.23	39	23.5	5.49	2.4	1.4	103	45.21
1389	99-RDD-1543	665228.00	5400670.00	0.16	1	1	1.4	32.7	2.91	18	13.9	3.40	2.2	1.7	61	47.87
1390	99-RDD-1544	664735.00	5400450.00	0.08	2	<1	<0.9	20.0	3.63	18	16.3	4.14	1.9	2.4	43	35.19
1391	99-RDD-1545	667422.49	5400043.44	0.23	2	4	1.6	45.6	9.56	34	18.9	8.16	2.6	2.1	110	47.12
1392	99-RDD-1546	669602.00	5400560.00	0.12	2	2	1.3	31.4	3.23	15	13.3	4.19	2.5	3.2	59	47.38
1393	99-RDD-1547	671813.23	5400193.34	0.09	1	1	1.6	29.3	3.27	20	13.5	3.19	2.6	1.8	44	47.31
1394	99-RDD-1548	672660.83	5401115.81	0.19	2	2	1.4	58.1	4.04	15	16.0	2.90	2.2	1.5	90	54.22
1395	99-RDD-1549	672370.00	5401590.00	0.23	1	1	1.5	49.9	6.02	13	18.8	3.04	2.3	1.4	70	56.03
1396	99-RDD-1551	675227.65	5402285.78	0.04	3	<1	2.0	9.8	2.92	14	7.8	5.49	2.0	1.6	110	66.22
1397	99-RDD-1552	675872.54	5402639.23	0.13	5	8	1.3	38.6	2.07	12	12.1	3.20	2.7	1.6	48	37.38
1399	99-RDD-1554	675886.28	5401423.50	0.30	2	<1	3.1	101.3	19.99	62	43.2	5.13	8.1	3.8	130	46.52

Site	Sample #	Easting	Northing	Ag	As	Au	Au	Cu	Co	Cr	Ni	Pb	Pd	Pt	Zn	LOI
		NAD83	Method---------->	ICP-MS	INAA	INAA	FA	ICP-MS	ICP-MS	ICP-OES	ICP-MS	ICP-MS	FA	FA	ICP-MS	Grav.
		UTM	Units---------->	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	%
		Zone 16	Detection limit-->	0.02	1	1	0.9	0.5	0.05	4	0.5	0.05	0.9	0.5	1	0.01
1400	99-RDD-1555	677121.00	5402170.00	0.22	4	3	3.4	75.2	16.12	48	36.5	4.35	7.4	3.1	111	41.86
1401	99-RDD-1556	677720.00	5401140.00	0.10	2	<1	1.6	24.8	9.24	17	15.9	3.53	2.3	1.7	102	56.89
1402	99-RDD-1557	677271.00	5401390.00	0.05	2	<1	1.2	15.7	6.74	19	12.5	3.11	1.8	1.5	136	65.21
1403	99-RDD-1558	679343.00	5401730.00	0.09	4	<1	1.0	36.8	9.79	31	27.4	6.69	3.1	1.7	80	39.74
1404	99-RDD-1559	679337.12	5402259.61	0.13	2	2	1.7	38.1	10.48	38	23.9	3.69	3.2	2.3	99	32.33
1406	99-RDD-1562	682079.00	5403320.00	0.12	2	1	1.1	27.5	3.25	21	14.5	3.01	1.9	1.6	50	36.86
1407	99-RDD-1563	682997.00	5403470.00	0.18	2	<1	1.4	42.8	9.08	33	24.6	4.24	2.4	1.6	84	40.60
1408	99-RDD-1564	680421.00	5405050.00	0.10	2	<1	0.9	24.6	7.66	35	20.5	4.16	1.7	1.5	69	34.01
1410	99-RDD-1566	678522.00	5405000.00	0.12	3	1	n/a	25.8	5.15	18	14.7	4.64	n/a	n/a	100	67.00
1411	99-RDD-1567	678538.00	5404640.00	0.15	3	1	1.4	45.0	12.02	44	23.2	4.22	2.5	1.6	89	47.17
1412	99-RDD-1568	678554.00	5403210.00	0.17	2	2	1.4	44.2	36.08	36	29.6	5.53	2.4	1.6	81	43.62
1413	99-RDD-1569	679327.00	5402750.00	0.15	2	3	2.8	44.5	6.30	41	24.4	5.34	3.1	2.1	89	38.30
1414	99-RDD-1571	679861.61	5400521.60	0.05	2	<1	1.2	14.4	5.21	12	11.1	3.30	2.1	1.4	80	60.50
1415	99-RDD-1572	688324.42	5392397.75	0.11	5	2	2.0	31.9	29.55	36	27.8	7.01	2.6	1.9	129	28.49
1416	99-RDD-1573	680808.00	5384070.00	0.08	7	4	5.0	57.5	8.07	27	25.0	5.12	2.9	1.6	95	49.79
1417	99-RDD-1574	679553.91	5379368.05	0.12	2	1	1.7	51.7	5.88	19	17.5	3.08	1.8	1.3	102	49.78
1418	99-RDD-1575	679085.00	5378260.00	0.25	2	2	n/a	98.7	4.83	20	20.8	5.29	n/a	n/a	118	54.44
1419	99-RDD-1576	673757.00	5378600.00	0.25	2	4	7.6	133.3	13.87	34	23.0	4.09	3.1	2.0	76	32.87
1420	99-RDD-1577	673935.00	5375740.00	0.30	1	4	2.5	56.6	5.42	28	16.7	4.96	2.3	1.4	70	48.20
1421	99-RDD-1578	671487.67	5375333.23	0.58	3	5	5.3	107.5	3.90	15	15.9	5.20	2.2	1.8	103	57.68
1422	99-RDD-1579	670216.00	5374850.00	0.39	2	4	4.7	97.8	4.09	22	15.3	4.09	2.1	1.3	75	54.26
1423	99-RDD-1581	663843.28	5372353.24	0.12	3	<1	4.9	87.5	16.76	59	43.8	4.77	5.6	3.5	73	14.54
1424	99-RDD-1582	663371.48	5371328.35	0.20	3	5	3.8	66.9	8.53	44	27.5	4.21	1.9	1.9	79	30.22
1425	99-RDD-1583	664220.00	5368970.00	0.18	<1	1	3.1	52.6	9.56	34	17.9	5.79	1.9	1.5	77	45.34
1426	99-RDD-1584	663914.00	5368700.00	0.26	2	5	3.8	58.2	8.76	34	19.8	5.33	1.7	1.4	68	51.65
1427	99-RDD-1585	661459.38	5366034.29	0.28	2	4	4.9	79.3	7.20	50	26.3	4.99	2.0	1.5	76	40.47
1428	99-RDD-1586	660083.00	5365880.00	0.19	2	2	3.5	57.3	7.88	32	27.3	4.01	1.6	0.7	62	48.83
1429	99-RDD-1587	659359.37	5365157.35	0.41	2	7	5.5	61.8	7.83	40	26.2	6.32	2.0	1.8	63	46.79
1430	99-RDD-1588	658071.00	5365340.00	0.15	1	2	1.7	57.8	2.98	7	14.3	2.81	1.5	1.2	129	65.30
1431	99-RDD-1589	658764.00	5364610.00	0.39	3	7	5.3	64.1	7.19	39	28.5	6.64	2.1	1.4	80	50.88
1432	99-RDD-1591	659246.00	5364420.00	0.34	3	7	6.1	66.1	6.45	39	23.1	6.15	2.0	1.2	77	52.74
1433	99-RDD-1592	659601.00	5363600.00	0.23	3	2	3.9	35.9	6.02	31	18.6	9.17	1.5	1.1	58	46.42
1434	99-RDD-1593	659620.62	5361655.83	0.07	<1	2	1.7	21.1	2.51	15	10.7	2.90	1.2	1.9	28	40.17
1435	99-RDD-1594	658876.00	5361730.00	0.17	1	4	4.4	43.2	9.31	41	21.9	6.65	2.1	2.1	66	45.54
1436	99-RDD-1595	658586.00	5360860.00	0.14	2	5	5.0	39.3	5.64	34	18.8	5.51	1.9	1.3	55	44.96
1437	99-RDD-1596	656117.91	5359219.64	0.13	3	5	4.0	38.0	9.36	25	17.4	3.65	2.0	1.3	67	62.95
1438	99-RDD-1597	654878.61	5358164.16	0.25	2	8	5.8	54.0	9.74	49	27.5	6.45	2.1	1.6	81	34.86
1439	99-RDD-1598	655238.00	5359860.00	0.27	3	5	5.3	48.8	6.03	36	19.7	6.07	1.6	1.2	68	51.84
1440	99-RDD-1599	654353.00	5359170.00	0.18	2	5	3.6	44.6	9.90	36	29.5	4.78	1.5	1.1	65	42.62
1442	99-RDD-1602	652795.59	5358365.93	0.27	5	10	5.6	64.5	37.68	82	65.9	12.68	3.8	2.2	181	25.19
1444	99-RDD-1604	652985.00	5356180.00	0.20	2	6	5.4	52.2	8.82	38	30.8	5.18	2.1	0.9	66	49.65
1445	99-RDD-1605	651462.33	5354531.77	0.23	2	6	4.3	50.9	14.06	68	43.8	7.91	3.6	2.1	96	28.40
1446	99-RDD-1606	653894.51	5354804.40	0.19	2	5	4.6	55.7	15.62	67	48.7	6.56	3.4	2.3	102	27.91
1447	99-RDD-1607	657151.43	5355071.57	0.25	2	4	5.8	63.8	23.56	82	57.3	7.97	4.4	2.9	138	23.29
1448	99-RDD-1608	660132.00	5356690.00	0.24	2	4	5.9	58.2	15.02	36	21.0	6.06	2.4	1.6	75	51.98
1449	99-RDD-1609	657524.00	5357290.00	0.16	3	6	10.5	52.0	19.72	65	38.7	7.44	4.0	2.5	122	22.53
1450	99-RDD-1611	656188.00	5358400.00	0.20	<1	7	6.3	59.1	13.01	50	30.8	7.00	2.6	2.1	105	39.03
1451	99-RDD-1612	660599.00	5362120.00	0.20	2	5	6.7	45.2	6.38	38	17.7	10.40	3.4	3.4	65	45.33
1452	99-RDD-1613	660695.00	5363530.00	0.20	1	7	9.1	53.1	12.05	44	26.4	4.21	2.7	2.0	82	31.91
1453	99-RDD-1614	661452.00	5364190.00	0.32	2	5	7.7	81.6	8.38	47	30.7	5.01	2.9	1.8	84	69.11
1454	99-RDD-1615	660743.00	5364690.00	0.19	1	4	7.5	62.2	7.28	42	30.5	3.70	2.9	1.9	72	37.13
1455	99-RDD-1616	663318.12	5364641.96	0.38	3	5	6.6	75.8	13.36	50	22.3	9.48	2.7	1.3	91	41.08
1456	99-RDD-1617	662617.28	5364683.63	0.28	2	4	9.7	85.6	14.99	58	27.5	5.16	3.0	2.3	131	36.26
1457	99-RDD-1618	666705.57	5364689.50	0.33	2	4	4.8	64.1	11.94	54	24.5	10.30	2.9	1.7	94	36.07
1458	99-RDD-1619	668808.00	5364810.00	0.27	2	3	4.2	42.1	9.60	50	25.5	6.07	2.8	2.3	84	41.93
1459	99-RDD-1621	671802.00	5362180.00	0.12	2	3	2.0	37.2	9.04	64	32.5	4.92	3.1	2.3	76	29.64
1460	99-RDD-1622	670741.41	5361459.54	0.24	4	3	2.6	53.9	15.51	77	36.8	9.15	4.1	2.3	103	37.33
1461	99-RDD-1623	671351.00	5363790.00	0.15	1	2	1.4	36.8	5.94	38	18.8	4.06	1.3	0.9	55	44.84
1462	99-RDD-1624	673154.99	5375013.79	0.22	2	4	2.3	60.0	6.01	35	21.1	5.98	3.0	1.8	69	50.41
1463	99-RDD-1625	676743.53	5375692.43	0.20	<1	<1	3.0	66.4	10.04	67	33.0	3.92	3.5	2.3	117	38.75
1464	99-RDD-1626	677269.93	5377343.68	0.16	1	<1	1.7	104.9	9.70	44	32.9	2.17	3.0	2.1	106	44.07

Site	Sample #	Easting	Northing	Ag	As	Au	Au	Cu	Co	Cr	Ni	Pb	Pd	Pt	Zn	LOI
		NAD83	Method---------->	ICP-MS	INAA	INAA	FA	ICP-MS	ICP-MS	ICP-OES	ICP-MS	ICP-MS	FA	FA	ICP-MS	Grav.
		UTM	Units---------->	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	%
		Zone 15	Detection limit-->	0.02	1	1	0.9	0.5	0.05	4	0.5	0.05	0.9	0.5	1	0.01
1465	99-RDD-1627	688387.36	5343425.62	0.13	3	3	2.7	42.4	7.10	46	28.7	4.74	2.9	1.8	68	36.54
1466	99-RDD-1628	686925.68	5344160.73	0.20	3	1	1.9	61.9	7.14	47	28.0	6.38	2.4	1.4	67	44.98
1467	99-RDD-1629	687585.82	5342323.07	0.08	3	3	1.8	36.1	5.60	34	26.0	6.32	4.3	3.0	56	40.95
1468	99-RDD-1631	686522.00	5341856.45	0.16	2	3	2.3	63.6	6.77	51	36.1	4.61	4.1	2.0	59	52.35
1469	99-RDD-1632	687193.18	5339852.55	0.43	1	4	3.9	96.7	10.20	83	32.7	8.13	3.9	2.1	84	46.33
1471	99-RDD-1634	671657.12	5354635.55	0.12	2	1	2.7	33.1	13.34	72	37.3	8.34	4.2	3.3	88	17.31
1472	99-RDD-1635	670160.00	5353910.00	0.21	4	4	n/a	65.7	3.96	22	18.1	5.15	n/a	n/a	107	68.13
1473	99-RDD-1636	670797.96	5355714.84	0.13	2	2	2.3	29.6	6.12	55	30.4	7.55	2.3	1.7	62	19.05
1474	99-RDD-1637	670175.21	5355472.40	0.18	3	3	3.0	59.8	7.20	57	34.1	4.42	4.2	2.0	61	41.81
1475	99-RDD-1638	669930.29	5356052.85	0.11	3	1	2.1	51.8	6.81	38	24.9	4.14	3.1	1.8	73	49.70
1476	99-RDD-1639	669516.00	5356520.00	0.09	4	1	2.1	46.7	4.60	31	22.5	6.07	3.4	1.7	63	55.49
1477	99-RDD-1641	669164.31	5355827.76	0.11	3	2	1.8	55.5	5.97	36	25.0	4.60	3.6	1.8	69	55.72
1478	99-RDD-1642	668695.00	5357260.00	0.09	2	3	1.5	49.3	3.60	18	20.6	2.92	5.4	1.6	37	51.88
1479	99-RDD-1643	666858.01	5357511.60	0.11	2	<1	4.5	36.0	11.25	73	37.8	7.78	4.7	3.7	79	13.98
1480	99-RDD-1644	667244.79	5355412.99	0.15	3	3	4.0	51.4	15.87	78	44.4	7.58	5.8	3.6	100	18.14
1482	99-RDD-1646	660631.38	5353602.55	0.19	3	3	3.8	106.3	5.59	21	15.0	6.38	4.5	2.3	56	67.62
1483	99-RDD-1647	664670.96	5350652.17	0.16	2	<1	2.9	53.9	12.56	69	44.8	5.77	4.9	3.0	83	28.53
1484	99-RDD-1648	665974.68	5351126.36	0.11	2	<1	2.9	42.1	14.04	84	46.3	6.78	4.8	3.6	92	19.48
1485	99-RDD-1649	668862.12	5350151.34	0.07	2	2	2.3	40.4	10.11	53	35.1	6.67	5.5	4.1	61	30.24
1486	99-RDD-1651	668371.62	5352538.85	0.18	2	2	2.8	46.9	10.07	60	29.4	6.32	4.1	3.1	87	41.81
1487	99-RDD-1652	669081.00	5353040.00	0.14	1	<1	2.7	35.4	7.67	59	29.3	6.55	4.0	2.5	64	33.92
1488	99-RDD-1653	671223.88	5353051.07	0.19	4	1	3.0	90.1	29.30	45	35.2	5.79	5.3	4.1	100	54.71
1489	99-RDD-1654	670608.43	5353099.91	0.09	1	<1	2.5	29.6	13.73	76	38.8	5.24	6.2	4.4	87	14.82
			Maximum	0.83	80	78	102.7	664.0	90.18	236	208.9	36.20	36.7	34.7	254	88.38
			Minimum	0.01	1	1	0.5	0.3	0.28	2	5.9	0.50	0.5	0.3	13	10.08
			Average	0.13	3	2	2.6	45.1	8.57	35	24.6	4.93	2.9	2.2	79	43.86
			Median	0.11	2	2	1.9	37.2	7.35	33	22.6	4.41	2.6	2.0	75	44.20

Metric Conversion Table

Conversion from SI to Imperial			Conversion from Imperial to SI		
SI Unit	*Multiplied by*	*Gives*	*Imperial Unit*	*Multiplied by*	*Gives*
		LENGTH			
1 mm	0.039 37	inches	1 inch	**25.4**	mm
1 cm	0.393 70	inches	1 inch	**2.54**	cm
1 m	3.280 84	feet	1 foot	**0.304 8**	m
1 m	0.049 709	chains	1 chain	20.116 8	m
1 km	0.621 371	miles (statute)	1 mile (statute)	**1.609 344**	km
		AREA			
1 cm^2	0.155 0	square inches	1 square inch	**6.451 6**	cm^2
1 m^2	10.763 9	square feet	1 square foot	**0.092 903 04**	m^2
1 km^2	0.386 10	square miles	1 square mile	2.589 988	km^2
1 ha	2.471 054	acres	1 acre	0.404 685 6	ha
		VOLUME			
1 cm^3	0.061 023	cubic inches	1 cubic inch	**16.387 064**	cm^3
1 m^3	35.314 7	cubic feet	1 cubic foot	0.028 316 85	m^3
1 m^3	1.307 951	cubic yards	1 cubic yard	0.764 554 86	m^3
		CAPACITY			
1 L	1.759 755	pints	1 pint	0.568 261	L
1 L	0.879 877	quarts	1 quart	1.136 522	L
1 L	0.219 969	gallons	1 gallon	**4.546 090**	L
		MASS			
1 g	0.035 273 962	ounces (avdp)	1 ounce (avdp)	28.349 523	g
1 g	0.032 150 747	ounces (troy)	1 ounce (troy)	**31.103 476 8**	g
1 kg	2.204 622 6	pounds (avdp)	1 pound (avdp)	**0.453 592 37**	kg
1 kg	0.001 102 3	tons (short)	1 ton (short)	**907.184 74**	kg
1 t	1.102 311 3	tons (short)	1 ton (short)	**0.907 184 74**	t
1 kg	0.000 984 21	tons (long)	1 ton (long)	**1016.046 908 8**	kg
1 t	0.984 206 5	tons (long)	1 ton (long)	**1.016 046 90**	t
		CONCENTRATION			
1 g/t	0.029 166 6	ounce (troy)/ ton (short)	1 ounce (troy)/ ton (short)	34.285 714 2	g/t
1 g/t	0.583 333 33	pennyweights/ ton (short)	1 pennyweight/ ton (short)	1.714 285 7	g/t

OTHER USEFUL CONVERSION FACTORS

	Multiplied by	
1 ounce (troy) per ton (short)	31.103 477	grams per ton (short)
1 gram per ton (short)	0.032 151	ounces (troy) per ton (short)
1 ounce (troy) per ton (short)	20.0	pennyweights per ton (short)
1 pennyweight per ton (short)	0.05	ounces (troy) per ton (short)

Note: Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries, published by the Mining Association of Canada in co-operation with the Coal Association of Canada.

MAPS NOT FILMED

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